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THE CAÑON OF THE URUBAMBA*

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. [Map facing p. 896.]

The plateau Indian of Peru believes that evil spirits dwell in the eternal snows of his lofty mountains. His imagination peoples the region of perpetual winter with vindictive and invisible folk who drive him with sickness and pain out of their storm-swept homes. *Siroche*, or mountain sickness, is due to their influence, likewise the vague depression and uneasiness that go with it; yet in curious contrast is their belief in gardens bedecked with flowers on the summits of some of the highest mountains.

On the way to the great cañon of the Urubamba I traveled for several hours in company with a friendly itinerant priest and his Indian attendant. On the farther side of the desert plateau across which we rode rose the snowy crests of the eastern Cordillera of the Andes. At its foot ran a wonderful mile-deep granite cañon, within whose profound depths was the swift Urubamba. The lower course of the river is bordered by tropical forests, a number of sugar plantations, and, still farther down, by the vast territory of the rubber hunters. Through the priest I asked the Indian why he did not live in the warm and pleasant lower portions of the valley at our feet where there were many kinds of food, beautiful flowers, and perpetual spring. At first he gave the usual answer, "Because the savages live there," though his dirty and ragged clothes and his abject face gave me an impression of savagery far deeper than I had ever

*Account of a trip made by the author as Geographer-Geologist of the Yale-Peruvian Expedition of 1911.

received from any forest-dwelling Indian. When pressed for further reasons he at last exclaimed: "Doesn't the stranger know that fever-spirits live in the valley?"

"But," I protested, "you say that there are also bad spirits in the mountains and here you live among them." "Yes," he answered, "but the cold spirits of the *siroche* live only in the small country where the snow lies and at the top of the snow my great ancestors

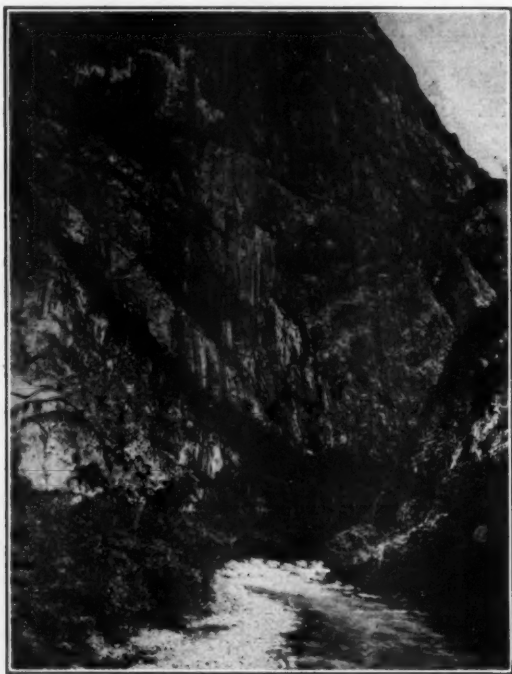


FIG. 1.—The lower half of a two thousand foot cliff, granite gorge of Torontoy, Urubamba valley. At one point the wall rises nearly a mile at an inclination of 10° to 15° from the vertical and is developed entirely along joint planes. It is here that the Urubamba River crosses the granite axis of the Cordillera Vilcapampa, the easternmost system of the Andes of Peru.

once saw flower gardens." With fever-spirits below him in the warm valleys and *siroche*-spirits in the mountain snows, it is little wonder that the plateau Indian looks upon his bleak home as a paradise on earth. He knows but one more attractive place—the region at the top of the snows just under the sky, where there are

flower gardens without fever-spirits, a region so high that only the mighty men of a legendary age have ever seen it.

We were about to drop over the rim of the cañon. Night had fallen, and it seemed like entering a black abyss until we came to a turn in the steep, stair-like trail where the lights of Urubamba became visible as at the bottom of an enormous bowl. Several hours of half-sliding, half-walking down the steep incline and we were in



FIG. 2.—Cliff vegetation near the bridge of San Miguel, lower end of the granite cañon of Torontoy. The distribution of the vegetation is controlled by the joint cracks where soil and water accumulate. Camera pointed upward 20° from horizontal.

the softer airs of the valley floor. Daylight brought with it an exquisite view. The cold plateau was not even visible, but in the clear morning air the great snow-capped mountains above us seemed to be almost within hand's reach. Light, filmy clouds rode high above them; at their bases were hundreds of torrential brooks fed by the lofty snows. The long alluvial slopes of the valley, intensively culti-

vated, presented rare beauties after the bleak plateau. Bright green alfalfa meadows alternated with fields of ripe barley and wheat. Irrigation ditches lined with trees and shrubs criss-crossed the plain. The villagers exhibited a happier and more prosperous air. Though the temperature had fallen almost to the freezing point during the night, a few hours of sunshine sufficed to warm the air and start the soft up-valley winds. The delights of valley travel had begun.

Our chief object on the valley trip was to study the great cañon of the Urubamba below Rosalina, and to make a topographic and geologic map of it. We wished to know what secrets might here be gathered, what people dwelt along its banks, and if the vague tales of ruined cities at the top of unscalable cliffs had any basis in fact.

Among the unexplored regions of Peru none is more tempting to the geographer than the great region on the eastern border of the Andes, drained by this tributary of the Amazon. It is here that the powerful river, reënforced by hundreds of mountain-born tributaries, finally cuts its defiant way through the last of its great topographic barriers. More than seventy rapids interrupt its course; one of them, at the mouth of the Sirialo, is more than a half mile in extent, and long before one reaches its head he hears its roaring from beyond the forest-clad mountain spurs.

The great bend of the Urubamba in which the line of rapids occurs is one of the most curious hydrographic features in Peru. The river suddenly changes its northward course and striking south of west flows nearly fifty miles toward the axis of the mountains, where, turning almost in a complete circle, it makes a final assault upon the eastern mountain ranges. Fifty miles farther on it breaks through the long serrate chain of the eastern Andes in a splendid gateway more than a half mile deep, the famous *Pongo de Mainique*.

We could gather almost no information as to the nature of the river except from the report of Major Kerbey, an American, who, in 1897, descended the last twenty miles of the one hundred we proposed to navigate. He pronounced the journey more hazardous than Major Powell's famous descent of the Grand Cañon in 1867. He lost his canoe in a treacherous rapid, was deserted by his Indian guides, and only after a painful march through a well-nigh impassable jungle, was he finally able to escape on an abandoned raft. Less than a dozen have ventured down since Major Kerbey's trip was made. A Peruvian mining engineer descended the river a few years ago, and four Italian traders a year later floated down in rafts and canoes, losing almost all of their cargo. For nearly two months they

were marooned upon a sand-bar waiting for the river to subside. At last they succeeded in reaching Mulanquiato, an Indian settlement and plantation owned by Pereira, near the entrance to the cañon. Their attempted passage of the last stretch of rapid resulted in the loss of all their rubber cargo, the work of over a year. Among the half dozen others who have made the journey (Indians and slave traders from down-river rubber posts) there is no record of a single descent without the loss of at least one canoe.

To reach the head of canoe navigation we made a two weeks' muleback journey north of Cuzco through the steep-walled granite cañon of Torontoy, and to the sugar and cacao plantations of the Urubamba at Santa Ana, where we outfitted. At Echarati, thirty miles farther on, where the heat becomes more intense and the first patches of real tropical forest begin, we were obliged to exchange our beasts for ten fresh animals accustomed to forest work and its privations. Three days later we pitched our tent on the river bank at Rosalina, the last outpost of the valley settlements. As we dropped down the steep mountain slope before striking the river flood plain, we passed two half-naked Machiganga Indians perched on the limbs of a tree beside the trail, our first sight of a tribe whose territory we had now entered. Later in the day they crossed the river in a dugout, landed on the sand-bar above us, and gathered brush for the nightly fire, around which they lay wrapped in a single shirt woven from the fiber of the wild cotton.

Rosalina is hardly more than a name on the map and a camp site on the river bank. Some distance back from the left bank of the river is a sugar plantation, whose owner lives in the cooler mountains, a day's journey away; on the right bank is a small clearing planted to sugar cane and yuca, and on the edge of it is a reed hut sheltering three inhabitants, the total population of Rosalina. The owner asked our destination, and to our reply that we would start in a few days for Pongo de Mainique he offered two serious objections. No one thought of arranging so difficult a journey in less than a month, for canoe and Indians were difficult to find, and the river trip was dangerous. Clearly, to start without the loss of precious time would require unusual exertion. Immediately we despatched one Indian messenger to the owner of the small hacienda across the river; one of our peons carried a second note to a man of great influence among the forest Indians, Padre Mendoza, who lives also in the distant mountains.

The answer of Señor Morales was his appearance in person to

offer the hospitality of his home and to assist us in securing canoe and oarsmen. To our note the Padre, from his hill-top, sent a polite answer and the offer of his large canoe if we would but guarantee its return. His temporary illness prevented a visit which we had looked forward to with great interest.

The morning after our arrival I started out on foot in company with our arriero [muleteer] in search of the Machigangas, who fish and hunt along the river bank during the dry season and retire to



FIG. 3.—Portion of the celebrated ruins of Ollantaytambo on steep mountain side east of the town. Irrigated barley fields in lower left-hand corner; temporary snow cover in upper right-hand corner.

their hill camps when the heavy rains begin. We soon left the well-beaten trail, and following a faint woodland path came to the river bank about a half day's journey below Rosalina. There we found a canoe hidden in the overhanging arch of vines, and crossing the river met an Indian family who gave us further directions. Their vague signs were but dimly understood and we soon found ourselves

in the midst of a carrizo [reed] swamp filled with tall bamboo and cane and crossed by a network of interlacing streams. We followed a faint path only to find ourselves climbing the adjacent mountain slopes away from our destination. Once again in the swamp we had literally to cut our way through the thick cane, wade the numberless brooks, and follow wild animal trails, until, late in the day, famished and thirsty, we came upon a little clearing on a sand-bar, the hut of La Sama, who knew the Machigangas and their villages.

After our long day's work we ate the fish and yuca, and drank the limewater prepared for us with a never-to-be-forgotten relish. Late at night La Sama returned from a trip to the Indian villages down river. He brought with him a half dozen Machiganga Indians,

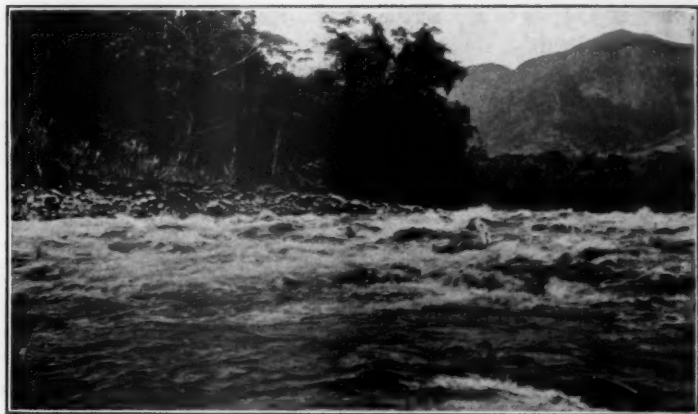


FIG. 4.—The Sirialo rapids, Urubamba River, below Rosalina. These are the worst rapids between Rosalina and Pongo de Mainique. They are a half mile long and are filled with boulders brought down by the Sirialo from the distant Cordillera Vilcapampa.

boys and men, and around the camp fire that night gave us a dramatic account of his former trip down river. At one point he leaped to his feet, and, with an imaginary pole shifted the canoe in a swift rapid, turned it aside from imminent wreck and shouting at the top of his voice over the roar of the rapid finally succeeded in evading what had seemed like certain death in a whirlpool. We kept a fire going all night long for we slept upon the ground without a covering, and, strange as it may appear, the cold seemed intense, though the minimum thermometer registered 59° F. The next morning the whole party of ten sunned themselves for nearly an hour until the flies and heat once more drove them to shelter.

Returning to camp next day along a different trail was an experience worth repeating, because of the light it threw on hidden trails known only to the Indian and his friends. Slave raiders in former years devastated the native villages and forced the Indian to conceal his special trails of refuge. At one point we traversed a cliff seventy-five feet above the river, walking on a narrow ledge no wider than one's foot. At another point the dim trail apparently disappeared, but when we had climbed hand over hand up the face of the cliff, hanging to vines and tree roots, we came upon it again. Crossing the river in the canoe we had used the day before, we shortened the return by wading the swift Chirumbia waist-deep, and by crawling along a cliff face for nearly an eighth of a mile. At the steepest point the river had so undercut the face that no passage was afforded, and we swung across some fifteen feet of broken trail on a hanging vine high above the river.

After two days' delay we left Rosalina late in the afternoon of August 7. My party included several Machiganga Indians, La Sama and Dr. W. G. Erving, surgeon of the expedition. At the first rapid we learned the methods of our Indian boatmen. It was to run the heavy boat head on into shallow water at one side of a rapid and in this way "brake" it down stream. Heavily loaded with six men, 200 pounds of baggage, a dog, and supplies of yuca and sugar cane, our canoe was as rigid as a steamer, and we dropped safely down rapid after rapid until long after dark, and by the light of a glorious tropical moon, we beached our craft in front of La Sama's hut at the edge of the cane swamp.

Here for five days we endured a most exasperating delay. La Sama had promised Indian boatmen and now said that none had yet been secured. Each day Indians were about to arrive, but by nightfall the promise was broken only to be repeated the following morning. To save our food supply—we had taken but six days' provisions—we ate yuca soup and fish and some parched corn, adding to this only a little from our limited stores. At last we could wait no longer, even if the map had to be sacrificed to the work of navigating the canoe. Our determination to leave stirred La Sama to final action. He secured a half-breed assistant and embarked with us, planning to get Indians farther down river or make the journey himself.

On August 12, at 4:30 P.M., we entered upon the second stage of the journey. As we shot down the first long rapid and rounded a wooded bend the view down river opened up and gave us our first

clear notion of the region we had set out to explore. From mountain summits in the clouds long trailing spurs descend to the river bank. In general the slopes are soft-contoured and forest-clad from summit to base; only in a few places do high cliffs diversify the scenery. The river vista everywhere includes a rapid and small patches of "playa" or scraps of flood plain on the inside of the river curves. Although a true cañon hems in the river at two celebrated passes farther down, the upper part of the river flows in a somewhat open valley of moderate relief.

A light shower came up at sunset, a typical late afternoon down-pour so characteristic of the tropics. We landed at a small encampment of Machigangas, built a fire against the scarred trunk of a great palm, and made up our beds in the open, covering them with our rubber ponchos. Our Indian neighbors gave us yuca and corn, but their neighborliness went no further, for when our boatmen attempted to sleep under their roofs they drove them out and fastened as securely as possible the shaky door of their hut.

All our efforts to secure Indians, both here and elsewhere, proved fruitless. One excuse after another was overcome; they plainly coveted the trinkets, knives, machetes, muskets, and ammunition that we offered them; and they appeared to be friendly enough. Only after repeated assurances of our friendship could we learn the real reason for their refusal. Some of them were escaped rubber pickers that had been captured by white raiders several years before, and a return to the rubber country meant enslavement, heavy floggings, and separation from their numerous wives. The recollection of their hardships, their final escape, the cruelty of the rubber men, and the difficult passage of the rapids below were a set of circumstances that nothing in our list of gifts could overcome. My first request a week before had so sharpened their memory that one of them related the story of his wrongs, a recital intensely dramatic to the whole circle of his listeners, including myself. Though I did not understand the details of his story, his tones and gesticulations were so effective as to hold me as well as his kinsmen of the woods spellbound for over an hour.

It is appalling to what extent this great region has been depopulated by the slave raiders and those arch enemies of the savage, smallpox and malaria. Over sixty Indians died of malaria in one year at Rosalina; and only twenty years ago seventy of them, the entire population of the Pongo, were swept away by smallpox. For a week we passed former camps near small abandoned clearings,

once the home of little groups of Machigangas. Even the summer shelter huts on the sand-bars, where the Indians formerly gathered from their hill homes to fish, are now almost entirely abandoned. Though our men carefully reconnoitred each one for fear of ambush, the precaution was needless. Below the Coribeni the Urubamba is a great silent valley. It is fitted by Nature to support numerous villages, but its vast solitudes are unbroken except at night, when a few families that live in the hills slip down to the river to gather yuca and cane.

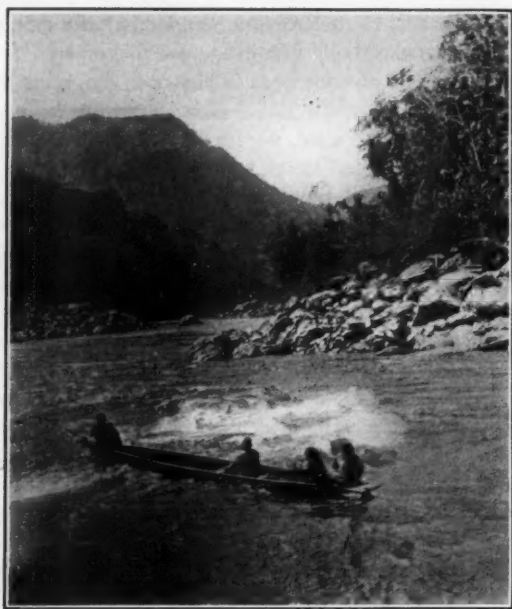


FIG. 5.—Machiganga Indians taking a twenty-five foot canoe through one of the smaller rapids above the "Pongo" or gateway on the eastern border of the Andes. A speed of twenty miles an hour is attained in the swiftest rapids.

By noon of the second day's journey we reached the head of the great rapid at the mouth of the Sirialo. We had already run the great Coribeni rapid, visited the Indian huts at the junction of the big Coribeni tributary, exchanged our canoe for a larger and steadier one, and were now to negotiate one of the ugliest rapids of the upper river. The rapid is formed by the gravel masses that the Sirialo

brings down from the distant Cordillera Vilcapampa. They trail along for at least a half mile, split the river into two main currents and half choke the mouth of the tributary. For nearly a mile above this great barrier the main river is ponded and almost as quiet as a lake.

We let our craft down this rapid by ropes, and in the last difficult passage were so badly handled by our almost unmanageable canoe as to suffer from several bad accidents. All of the party were injured in one way or another, while I suffered a fracture sprain that made painful work of the rest of the river trip.

At two points along the Urubamba below Rosalina the river is shut in by steep mountain slopes and vertical cliffs. Canoe-naviga-



FIG. 6—A temporary shelter hut on a sand-bar near the great bend of the Urubamba (see map).
The Machiganga Indians use these cane shelters during the fishing season, when the river is low.

tion below the great Sirialo and Coribeni rapids is no more hazardous than on the rapids of our northern rivers, except at the two "pongos" or narrow passages. The first occurs at the sharpest point of the abrupt curve shown on the map; the second is the celebrated Pongo de Mainique. In these narrow passages in time of high water there is no landing for long stretches. The bow paddler stands well forward and tries for depth and current; the stern paddler keeps the canoe steady in its course. When paddlers are in agreement even a heavy canoe such as ours can be generally directed into the most favorable channels. Our canoemen were always in disagreement,

however, and as often as not we shot down rapids at a speed of twenty miles an hour, broadside on, with an occasional bump on projecting rocks or boulders whose warning ordinary boatmen would not let go unheeded.

The scenery at the great bend is indescribably beautiful. The tropical forest crowds the river bank, great cliffs rise sheer from the water's edge, their faces overhung with a trailing drapery of vines, and in the longer river vistas one may sometimes see the distant heights of the Cordillera Vilcapampa. We shot the long succession of rapids in the first cañon without mishap, and at night pitched our tent on the edge of the river near the mouth of the Manugali.

From the sharp peak opposite our camp we saw for the first time the phenomenon of cloud-banners. A soft breeze was blowing from the western mountains and its vapor was condensed into clouds on the leeward side of the peak. The clouds were being carried down the wind and dissolved, but were constantly forming afresh at the summit. In the night a thunderstorm arose and swept with a roar through the vast forest above us. The solid canopy of the tropical forest fairly resounded with the impact of the heavy raindrops. The next morning all the brooks from the farther side of the river were in flood and the river discolored. The last mist wraiths of the storm were still trailing through the tree-tops and wrapped about the peak opposite our camp, only parting now and then, giving us most delightful glimpses of a forest-clad summit riding high above the clouds.

The alternation of deeps and shallows at this point in the river and the well-developed cañon meanders are among the most celebrated of their kind in the world. Though shut in by high cliffs and bordered by mountains the river exhibits a succession of curves so regular that one might almost imagine the country a plain from the pattern of the meanders. The succession of smooth curves for a long distance across existing mountains points to a time when a lowland plain with moderate slopes was developed here, a plain drained by strongly meandering rivers. Uplift afforded a chance for renewed down-cutting on the part of all the streams, and the incision of the meanders. The present meanders are, of course, not the identical ones that were formed on the lowland plain; they are rather their descendants. Though they still retain their strongly curved quality, and in places have almost cut through the narrow spurs between meander loops, they are not smooth like the meanders of the Missis-

sippi. Here and there are sharp irregular turns that mar the symmetry of the larger curves. The alternating bands of hard and soft rock have had a large part in making the course more irregular. The meanders have responded to the rock structure. Though regular in their broader features they are irregular and deformed in detail.

Depths and shallows are known in every vigorous river, but it is seldom that they are so prominently developed as in these great cañons. At one point in the upper cañon the river has been broadened into a lake two or three times the average width of the channel and with a scarcely perceptible current; above and below the "laguna," as the boatmen call it, are big rapids with beds so shallow that rocks project in many places. In the Pongo de Mainique the river is at one place only fifty feet wide, yet so deep that the current is almost stagnant. It is in such places that the red forest deer grazes under leafy arcades. Here, too, are the great boa constrictor trails several feet wide and bare like a roadway. At night the great serpents come trailing down to the river's edge, where the red deer and the wildcat, or so-called "tiger," are their easy prey.

It is in such quiet stretches that one finds also the vast colonies of water skippers. They dance continuously in the sun with an incessant darting motion from right to left and back again. Occasionally one dances about in circles, then suddenly darts through the entire mass, though without colliding against his equally erratic neighbors. An up-and-down motion still further complicates the effect. It is positively bewildering to look intently at the whirling, darting multitude and try to follow their complicated motions. Every slight breath of wind brings a shock to the organization of the dance. For though they dance only in the sun, their favorite places are the sunny spots in the shade near the bank as beneath an overhanging tree. When the wind shakes the foliage the mottled pattern of shade and sunlight is confused, the dance slows down, and the dancers become bewildered. In a storm they seek shelter in the jungle. The hot, quiet, sunlit days bring out literally millions of these tiny creatures.

One of the longest depths in the whole Urubamba lies just above the Pongo at Mulanquiato. We drifted down with a gentle current just after sunset. Strange shrill whistles sounded from either bank, the piercing notes of the lowland cicada, *cicada tibicen*. Long decorated canoes, better than any we had yet seen, were drawn up in the quiet coves. Soon we came upon the first settlement. The owner, Señor Pereira, has gathered about him a group of Machigangas, and by marrying into the tribe has attained a position of great influence

among the Indians. Upon our arrival a gun was fired to announce to his people that strangers had come, upon which the Machigangas strolled along in twos and threes from their huts, helped us ashore with the baggage, and prepared the evening meal. Here we sat down with five Italians, who had ventured into the rubber fields with golden ideas as to profits. After having lost the larger part of their merchandise, chiefly cinchona, in the rapids the year before, they had established themselves here with the idea of picking rubber. Without capital, they followed the ways of the itinerant rubber picker and had gathered "caucho," the poorer of the two kinds of rubber. No capital is required, the picker simply cuts down the likeliest trees, gathers the coagulated sap, and floats it down-stream to market.



FIG. 7.—General or landscape view in the Urubamba at the foot of the Sirialo rapids.

After a year of this life they had grown restless and were venturing on other schemes for the great down-river rubber country.

A few weeks later, on returning through the forest, we met their carriers with a few small bundles, the only part of their cargo they had saved from the river. Without a canoe or the means to buy one they had built rafts, which were quickly torn to pieces in the rapids. We, too, should have said "*pobres Italianos*" if their venture had not been so plainly foolish. The rubber-territory is difficult enough for men with capital; for men without capital it is impossible. Such men either become affiliated with organized companies before long or get out of the region when they can. A few, made desperate by

risks and losses, cheat and steal their way to rubber. Two years before our trip an Italian had murdered two Frenchmen just below the Pongo and stolen their rubber cargo, whereupon he was shot by Machigangas under the leadership of Domingo, the chief who was with us for a part of the time. Afterward they brought his skull to the top of a pass along the forest trail and set it up on a cliff at the very edge of Machiganga-land as a warning to others of his kind.

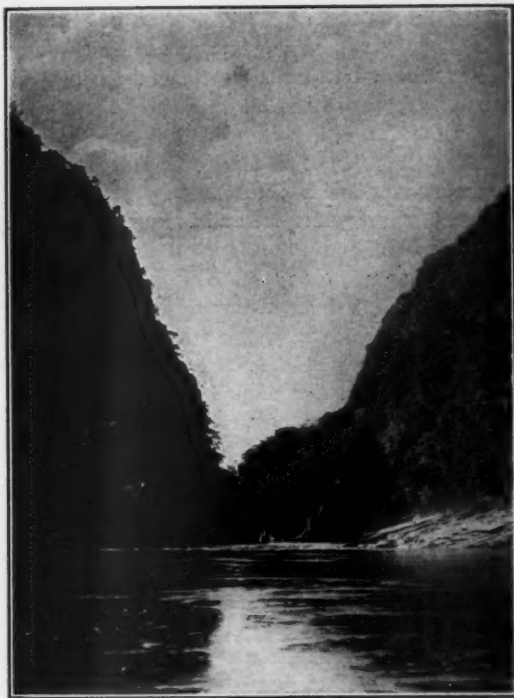


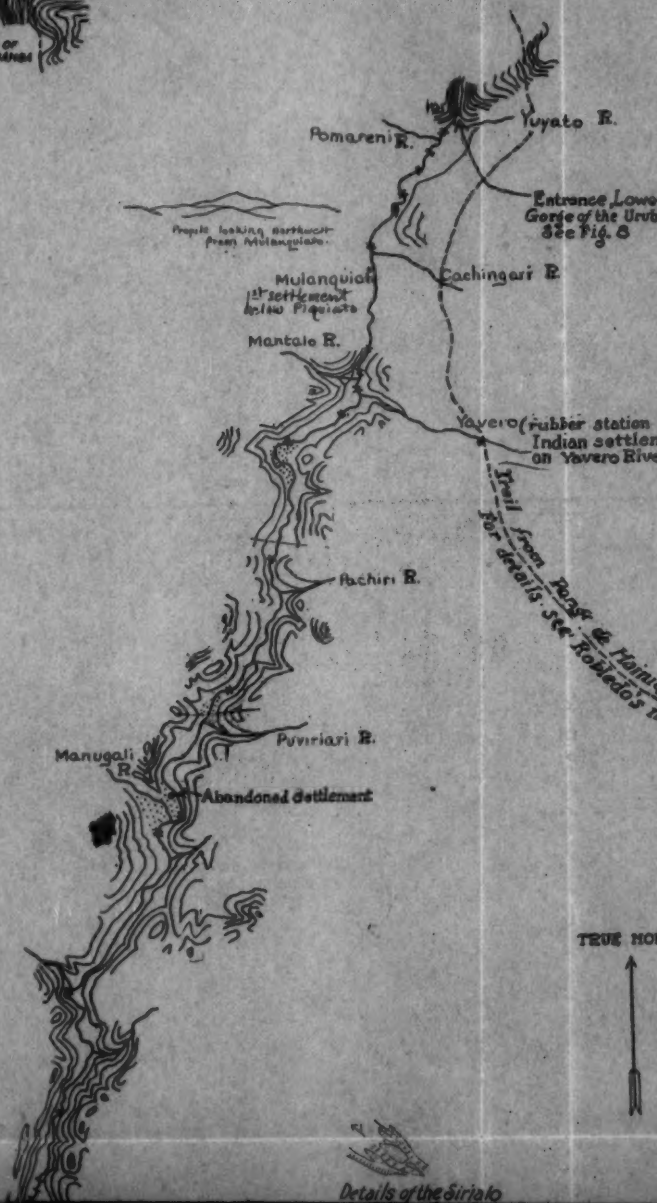
FIG. 8.--The upper entrance to the Pongo de Mainique, where the Urubamba crosses the last range of the Andes in a splendid gateway 4,000 feet deep. The river is broken by an almost continuous line of rapids in one of which Major Kerbey lost his entire outfit in 1897.

At Mulanquiato we secured five Machigangas and a boy interpreter, and on August 17 made the last and most difficult portion of our journey. We found the Indians much more skillful and daring than our earlier boatmen. Well-trained, alert, powerful, and with excellent team-play, they swept the canoe into this or that thread of

the current, and took one after another of the rapids with the greatest confidence. No sooner had we passed the Sintulini rapids, fully a mile long, when we reached the mouth of the Pomareni. This swift tributary comes in almost at right angles to the main river and gives rise to a confusing mass of standing waves and conflicting currents rendered still more difficult by the whirlpool just below the junction. So swift is the circling current of the maelstrom that the water is hollowed out like a great bowl, a really formidable point and one of our most dangerous passages; a little too far to the right and we should be thrown over against the cliff-face; a little too far to the left and we should be caught in the whirlpool. Once in the swift current the canoe became as helpless as a chip. It was turned this way and that, each turn heading it apparently straight for destruction. But the Indians had judged their position well, and though we seemed each moment in a worse predicament, we at last skimmed the edge of the whirlpool and brought our canoe to shore just beyond its rim.

A little farther on and we came to the great upper gateway of the Pongo, where the entire volume of the big river flows between cliffs at one point no more than fifty feet apart. Here are concentrated the worst rapids of the lower Urubamba. For nearly fifteen miles the river is an unbroken succession of rapids, and once within its walls the Pongo offers small chance of escape. At some points we were fortunate enough to secure a foothold along the edge of the river and to let our canoe down by ropes. At others we were obliged to take chances with the current, though the great depth of water in most of the Pongo rapids makes them really less formidable in some respects than the shallow rapids up stream. The chief danger here lies in the rotary motion of the water at the sharpest bends. The effect at some places is extraordinary. A floating object is carried across stream like a feather and driven at express-train speed against a solid cliff. In trying to avoid one of these cross-currents our canoe became turned midstream, we were thrown this way and that, and three standing waves broke over us and half filled the canoe.

Below the worst rapids the Pongo exhibits a swift succession of natural wonders. Fern-clad cliffs border it, a bush resembling the juniper reaches its dainty finger-like stems far out over the river, and the banks are heavily clad with mosses. The great woods, silent, impenetrable, mantle the high slopes and stretch up to the limits of vision. Cascades tumble from the cliff summits or go rippling down the long inclines of the slate beds set almost on edge. Finally



People looking Northwest from Mantale.

TRUE NORTH

Details of the Sirialo

ROUGH SKETCH CONTOUR MAP of the URUBAMBA VALLEY BETWEEN ROSALINA and PONGO DE MAINIQUE by Isaiah Bowman

Scale: 1 inch = 4 miles.

Contour interval approximately 200 feet:

— rapids

••• alluvial flats, locally called playas

Elevation of Rosalina: 2,000 feet

• Pongo de Mainique: 12,000 feet

• Passes on trail between Rosalina and

Pongo de Mainique: 5,000-7,000 feet

Only the lower slopes of the long mountain spurs can be seen from the river; hence only in a few places could observations be made on the topography of distant ranges. For details of trail from Rosalina to Pongo de Mainique via Yavero see "Plano de las Secciones y Afluentes del Río Urubamba: 1902-1904," scale 1:150,000, by Luis M. Robledo in Bol. Soc. Geogr. Lima, Año XIV, tomo XV, trim. Cuarto.

to E.

trance Lower
of the Urubamba.
see Fig. 8

ber station and
dian settlement
(Yavero River)

Route de Mainique to Rosalina
see Robledo's map

This sketch map is based on the topographic map of the Urubamba Valley, Peru, published by the U. S. Geological Survey, and on the sketch map of the Urubamba Valley, Peru, published by the U. S. Geological Survey, and on the sketch map of the Urubamba Valley, Peru, published by the U. S. Geological Survey.



SKETCH MAP SHOWING THE ROUTE OF THE VALE-PERUVIAN EXPEDITION OF 1911 DOWN THE URUBAMBA VALLEY, TOGETHER WITH THE AREA OF THE MAIN MAP AND THE CHANGES IN THE DELINEATION OF THE BEND OF THE URUBAMBA RESULTING FROM THE SURVEYS OF THE EXPEDITION BASED ON THE MAPA QUE COMPRENDE LAS ÚLTIMAS EXPLORACIONES Y ESTUDIOS VERIFICADOS DESDE 1900 HASTA 1906, 1:1,000,000, BOL. SOC. GEOGR. LIMA, AÑO XII TOMO XIV, TRIM. PRIMERO. Route thus: ----

Indian settlement
on Yavero River

Trail from Puyo to Mantua
for details see Toledo's map

Aschiri R.

Puviriari R.

Manugali R.

Abandoned settlement

TRUE NORTH



Details of the Sirialo
Rapids beginning just
below mouth of Sirialo

Cambaciat R.

Sangobateo R.

Puvatani R.

TIQUATO
(few people)

Saverusio
(abandoned)

Cosirani R.

Quitani R.

Coribe
Sal
Cm

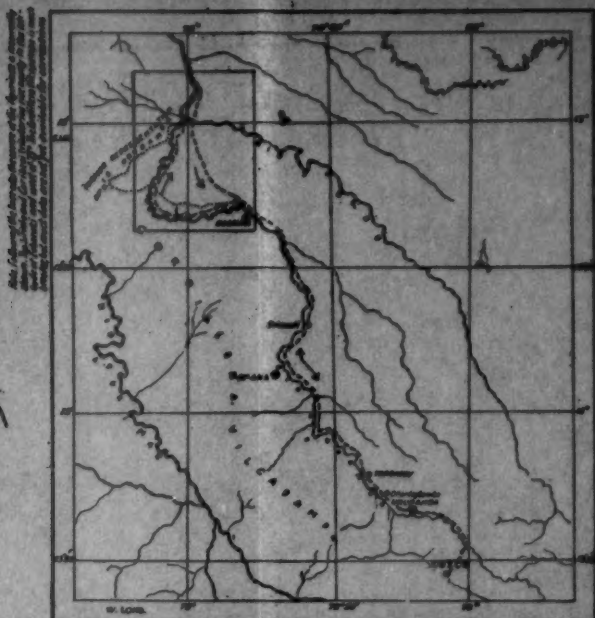
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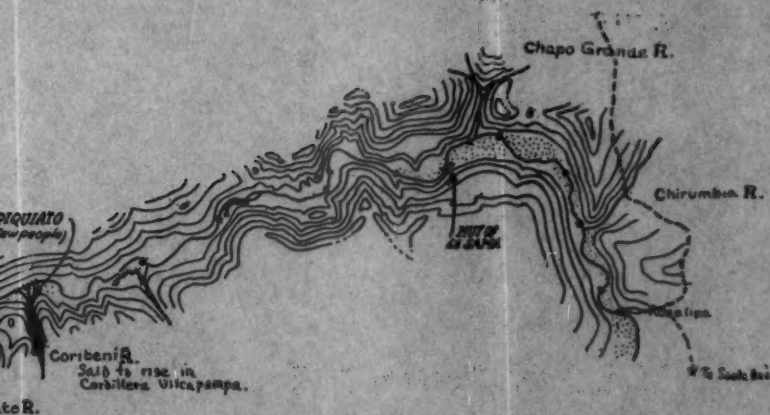
ian settlement
Yavero River)

Map of Mainiqua to Rosalino
by Roberto's map

TRUE NORTH



SKETCH MAP SHOWING THE ROUTE OF THE YALE-PERUVIAN EXPEDITION OF 1911 DOWN THE URUBAMBA VALLEY, TOGETHER WITH THE AREA OF THE MAIN MAP AND THE CHANGES IN THE DELINEATION OF THE BEND OF THE URUBAMBA RESULTING FROM THE SURVEYS OF THE EXPEDITION. BASED ON THE MAPA QUE COMPRENDE LAS ÚLTIMAS EXPLORACIONES Y ESTUDIOS VERIFICADOS DESDE 1900 HASTA 1906, 1:1,000,000, BOL. SOC. GEOG. LIMA, AÑO XIII TOMO XIV, TRIM. PRIMERO. Route thus: -----



appear the white pinnacles of limestone that hem in the narrow lower entrance or outlet of the Pongo. Beyond this passage one comes suddenly out upon the edge of a rolling forest-clad region, the great rubber territory, the country of the great woods.

From the summits of the white cliffs 4,000 feet above the river we were in a few days to have one of the most extensive views in South America. The break between the Andean Cordillera and the hill-dotted plains of the lower Urubamba valley is almost as sharp as a shoreline. The rolling plains are covered with leagues upon leagues of dense, shadowy, fever-haunted jungle. The great river winds through in a series of splendid meanders, and with so broad a channel as to make it visible almost to the horizon. Down river from our lookout one can reach ocean steamers at Iquitos with less than two weeks of travel. It is three weeks to the Pacific *via* Cuzco and more than a month if one takes the route across the high bleak lava-covered country which we were soon to cross on our way to the coast at Camaná.

SURVEY OF THE SIACHEN GLACIER

BY

FANNY BULLOCK WORKMAN
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As reported in 1911 in geographical periodicals, Dr. W. Hunter Workman and I, after completing our exploration in the Karakoram Mountains among the Hushe glaciers and those of the Kondus system, crossed to the Saltoro valley and traversed the Bilafond La [Pass] (18,400 feet) to the Siachen* or Rose Glacier on August 19th. We examined it for some distance above the entrance of the Bilafond branch, and visited two of its most important affluents, but it was too late in the season to consider the survey of a glacier the most noteworthy points of which lie at altitudes above 17,000 feet.

The object of the 1912 expedition was to make as detailed a map as possible of the whole glacier and to ascend to and examine its apparently somewhat complex sources, and elucidate, if possible, the problem of their relations to regions beyond. Mr. C. Grant Peterkin, who had received the diploma of the Royal Geographical Society

* The largest valley glacier yet known in Asia. Probably fifty miles or more in length.

and was kindly recommended to me by Mr. E. A. Reeves, F.R.A.S., agreed to act as surveyor. The Surveyor General of India, Col. Burrard, R.E., also kindly loaned a native plane tabler, Sarjan Singh, from the survey to assist in the work. One Italian Alpine porter accompanied the surveyor's party, and four Italian guides and porters were with Dr. Workman and myself. A Parsee from Srinagar who had handled the transportation detail in 1911 undertook the work this season and was assisted on the Siachen side by two sepoy reservist orderlies from the Pindi Division, Royal Indian Army, who did very good work. Goma in the Saltoro valley was the base of supplies.

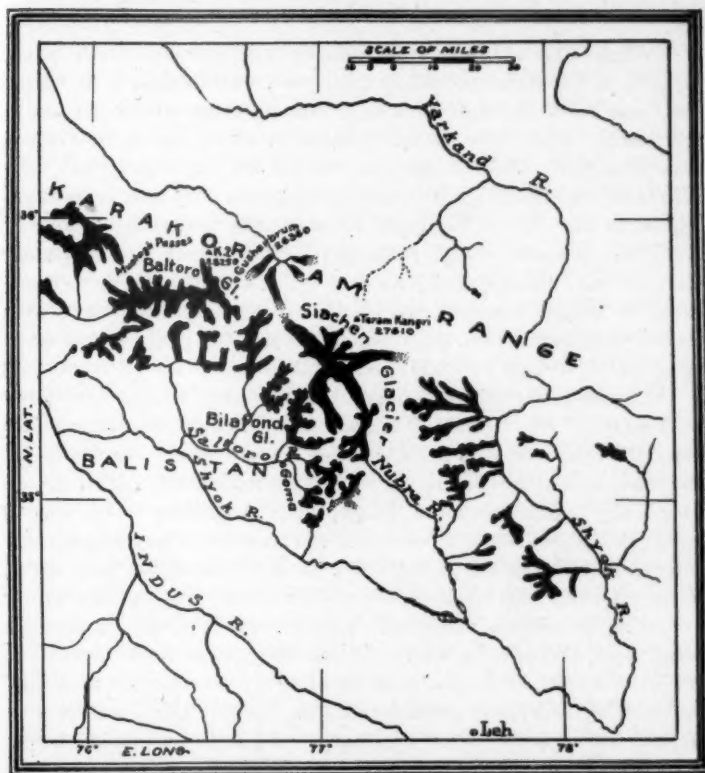
On reaching the top of the Bilafond Pass on July 11, the weather being very fine, I decided to attempt an impressive rock and snow peak lying above an elevated snow plateau N. W., which was likely to command a wide view toward the upper Siachen. Camping on the plateau at 19,000 feet, the peak was climbed by myself and three guides on the 12th. It proved a difficult mountain, as the last 800 feet were at a very sharp angle and each step had to be cut in a surface of black ice.

From the top I found myself separated from the great double summit K3 (25,210 and 25,415 feet), which heads the Dong Dong glacier only by the wide snow basin on its N. E. side, which we traversed in ascending that mountain to 20,000 feet last season. Its precipitous walls loomed above us with startling grandeur. North and south the vista of glaciers and peaks, some of which I was able to identify, was grand beyond description. Here I can only say that this ascent being possible at the beginning of the journey was of much value, enabling me, as it did, to get a comprehensive idea of the ice region about to be entered. Full light was also thrown upon certain points regarding the Dong Dong and Sher-pi-gang glaciers explored by us in 1911. This peak works out from hypsometric observations available at about 21,000 feet, but heights here mentioned will be subject to change when compared with lower station readings obtained from Skardu.

On reaching the Siachen a sheep and *bursta* camp was set up at our old 1911 base, the Teram Shehr promontory, which abuts the Siachen at the junction of the large northeast affluent. Sheep were kept here, there being no grass above that point, and *bursta* for fuel was collected and sent to higher points. I have named this northeast glacier the Teram Shehr, which is almost the only native name connected with the Siachen of which the oldest inhabitants have a

dim remembrance. A flour base camp with a *babu* in charge was made on moraine a little farther up the glacier.

All camps of my own party, except for a few days when we descended the glacier, were at or above 17,000 feet for five weeks and mostly either on moraine-covered ice or wholly on snow, for the Siachen glacier offers no dainty plots of soil or grass to the tent



SIACHEN GLACIER AND ITS SURROUNDINGS.

As Mrs. Bullock Workman's map material is not yet available, this sketch map, based on Dr. T. G. Longstaff's map (*Geogr. Journ.*, Vol. 35, 1910, facing p. 774) has been prepared to show roughly the position of the Siachen Glacier in relation to the great Karakoram Range and some of the other glaciers and the drainage systems.

nomads visiting its precincts. The mountain flanks on both sides are so precipitous that it is dangerous to pitch tents on them.

Weather did not permit our reaching the sources of the glacier at

once. On the first attempt lasting two or three days we camped far up the glacier at 18,000 feet, but were driven down in a stinging snowstorm early the next day. Two weeks of very fine weather, however, soon set in, and we were able to accomplish in this time what, under the usual summer Himalayan climate conditions, might take six weeks of running backward and forward; for, in order to visit what is to be seen at the Siachen sources, clear skies are essential.

Contrary to the usual conditions on this glacier, it was found possible to cut out terraces and camp on a mountain flank at 18,500 feet, just below the high snow fields leading to the north and north-east heads. From here the north saddle or very apex of the Siachen was ascended. This saddle is at an altitude of 20,900 feet. The northeast col was ascended the next day. It is not so arduous as the north one and is less high, about 19,200 feet. We discovered from here some very high peaks beyond the eastern Siachen boundary on the Chinese Turkestan side. These are about seven miles north of Teram Kangri*; one of these peaks is probably well over 25,000 feet, but it is futile to discuss heights of peaks unless one's data can be verified by careful triangulation.

After another climb to a ridge of 19,700 feet for observation and photography, Dr. Hunter Workman and I headed the caravan toward the glacier leading to the Siachen's west source. We descended the main stream crossing to the right orographical side. This glacier enters the Siachen at about 17,400 feet. Ascending it for several hours, we at last found a point free of crevasses, where a camp was pitched on snow at 18,700 feet. We passed three nights here, which made a serious impression on the coolies, there being no lakelets nor recurring streams, so abundant on the main glacier. A peerless white peak, probably 24,000 feet, heads this glacier to the west. The height will later be known more exactly. It is connected by a high col with a lower snow peak, and at the base of this lower peak is another col or depression. The higher col was first ascended, height 19,700 feet, and from it the source of a large glacier was seen about 4,000 feet below where we stood. The following day the lower depression was examined and, as I hoped, it proved to be the main outlet from the Siachen on the west, being the summit of a rather difficult but feasible pass for a loaded caravan to the glacier above mentioned lying west.

Next an ascent was made to a wide snow plateau lying directly

* The Survey of India gives the height of Teram Kangri as 27,650 feet.

under the chief summit of the 24,000 feet peak. The plateau is at least 21,000 feet in elevation and offers very fine views of Hidden Peak, Gusherbrum, and other giants of the region.

Our wonderful weather was now ended, and a snowstorm drove us down to the Siachen. I saw clearly though, that after finishing our work on the lower part, we should have to return to this icy head and leave the Siachen Glacier finally by the passage here discovered.

After we had descended the glacier, the 11th of August found us again on the high Siachen awaiting a chance to advance to the pass. Here fog and snowstorms held us prisoners for nine days. At the beginning of this detention I ordered forty coolies to return under two Europeans over the Bilafond glacier for flour, which was now running short. This brought on a strike which lasted eighteen hours. They refused to go for supplies, saying, if they went, they would not return. Their long visit to the sources had made a deep impression on their minds and they declared they would not return there. Finally, upon the Wazir explaining that, if they crossed the new pass, they would have only two days on snow and then be always on moraine down to villages, they gave in and no further complaint was heard. Flour arrived, and one bitterly cold morning, under a leaden sky, we started with 66 coolies laden with provisions for ten days.

Although it did not appear to be far enough north, we thought the pass might afford a passage to the Baltoro glacier. If not, we should find ourselves probably on the Kondus, which was surveyed in 1911 by our topographer, Dr. C. Calciati. Either way would be new and interesting; the Kondus more novel because bearing no footprints of illustrious predecessors, and from the fact that our expedition in 1911 had not pushed up to its extreme upper portion.

We camped a few hundred feet below the summit of the pass, again on snow in a freezing temperature, for by 3 P.M. it was snowing hard. By 6 o'clock it cleared. After a cool night under canvas, minimum temperature 3° Fahr., we ascended under a deep blue sky to the col. Here a boiling point reading was taken and numerous photographs. The pass works out, pending later data, at 19,000 feet.

Kind indeed was the weather god, who had allowed us, three weeks before, under sunlit skies to discover this new passage, and again, after dreary cold days of waiting, drew back the curtain of mist for a day permitting my caravan to pass safely to the other side under the fairest of skies. The descent to the glacier is about 3,000 feet. It was smooth going for about a quarter of the way down,

but after that the surface was seamed from side to side with wide crevasses—abysses treacherously covered by soft snow. We reached moraine for camping below the source of the new glacier, which is over 16,000 feet.

The next day it became evident that we were on the upper Kondus Glacier,* and the worst monster of a glacier to travel on we have met in the Karakoram. After one short march from its head ice bands and easy moraine end, for four days moraine strewn ice hillocks often 400 to 500 feet high had to be steadily clambered over. Owing to danger from stones falling from perpendicular mountain walls on its sides, no camps even to the end of its tongue can be pitched except on the tops of these depressing hillocks.

I am glad to have carried out with fair completeness the task, which has kept me two summers in India, and I think the work will, perhaps, be appreciated by future geographers in the days when the special survey of smaller unknown areas than vast polar continents comes into vogue. At least, not having the pioneer exploring to do, they will be spared the expense, the tedious effort to manage irresponsible coolies, and the many obstacles which the Siachen offers as a region for exploration, such as being separated from all bases of supplies by two glaciers and a snow pass like the Bilafond, and from wood by a distance of at least thirty miles.

Still I am satisfied and pay my deep salaams to the weather god, for, without his aid, the survey of so huge a glacier could not have been completed, nor could I, considering the perfidious actions of the only headmen available and the prodigious pilferings of the Sal-toro valley coolies, have had the privilege of first standing on two new points of the northeast Karakoram water parting, of observing their relation to Chinese Turkestan and of attaining other points of geographical interest on this largest and longest Himalayan glacier.

Mr. C. Grant Peterkin and his assistant made a full survey of the Siachen from its sources to the end of its tongue at the Nubra River, including its numerous tributaries.

One of my Italian porters, through momentary carelessness in not testing the ice with his axe, fell into a deep crevasse, carrying with him the only rope with us at the time. He remained there one and a half hours before ropes and guides were available to extricate him, and died of shock and the effects of cold the same night. I was walking directly behind him, and supposing him to be on the watch for crevasses, observed nothing until I saw him disappear, two steps

* Some ten miles west of the upper or northern part of the Siachen Glacier.

in front of me. I mention this because false stories of the lamentable occurrence, invented by Skardu coolies, were widely published.

It is gratifying to me that no coolies in my party were seriously injured or died on the glacier, for the Siachen is incomparably more difficult to travel over than any of the five great Karakoram glaciers, all of which except the Baltoro we know quite thoroughly. An especial danger for loaded coolies is water. In crossing the Siachen opposite Teram Shehr, a distance of about three miles, eleven glacial streams were met with this season. Three were at least ten feet wide and so deep that it was impossible to ford them after 11 A.M.

AMUNDSEN'S SOUTH POLAR BOOK*

REVIEWED BY

WILLIAM HERBERT HOBBS

Professor of Geology, University of Michigan

Simultaneously with Captain Amundsen's Continental lecture tour have appeared his complete narrative in German and also the lecture itself save for the illustrations.†

The volumes of narrative contain as supplementary chapters: a preliminary discussion of the meteorological observations made at the winter station of Framheim, a brief statement concerning the rock specimens collected (all crystalline rocks), the oceanographical observations (by B. Helland-Hansen and Fridtjof Nansen), and, finally, the scientific proof of attaining the South Pole by Ant. Alexander. The work is dedicated "To the brave little company—my comrades—who one evening on the way from Funchal promised to stand by me in the conquest of the South Pole." It is introduced by Fridtjof Nansen, the polar explorer who designed the *Fram* and whose poleward drift in it made the vessel famous.

As is well known, it was Amundsen's plan to attain the North Pole in a drift across the Arctic pack ice by the method devised by Nansen and all but successfully carried out. When Amundsen was

* Die Eroberung des Südpols. Die Norwegische Südpolfahrt mit dem Fram 1910-1912. Von Roald Amundsen. Einzige berechtigte Uebersetzung aus dem Norwegischen ins Deutsche von P. Klaiber. 2 vols. Fifteen maps and plans, 300 text illustrations and 8 four-color plates after oil paintings by Prof. W. L. Lehmann. J. F. Lehmanns Verlag, Munich, November, 1912. Mk. 22.

† "Meine Reise zum Südpol." *Zeitsch. Gesell. f. Erdkunde zu Berlin*, pp. 481-498, 1912. A translation of this paper appeared in the November *Bulletin*, pp. 822-838.

ready to sail, it was, however, with an inadequate outfit, due to a lack of the necessary funds. In August, 1910, as Nansen tells us, Amundsen's friends were surprised by a letter from him informing them that in order to secure the funds which had not been forthcoming at home he would first attain the South Pole. Says Nansen, "People were dumb—they did not know what to say. To gain the North Pole by way of the South Pole!" The great task of reaching the South Pole already accomplished, the doughty captain is now by means of lectures and editions reaping the golden harvest which is to send him fully equipped upon his Arctic quest in 1914.

Victoria Land, King Edward VII Land, Coats Land and Wilkes Land being all preempted as starting points by the English, Japanese, German and Australian Antarctic expeditions upon the ground, Amundsen chose as his *point d'appui* the deep indentation of the Ross Barrier situated 404 statute miles distant from Victoria Land, 115 miles from King Edward Land and known as Whale Bay. On comparing the present outlines of the bay with the map of Ross made some seventy years before, Amundsen was overjoyed to find that while elsewhere the margin of this great area of shelf ice had suffered large changes, it had here remained practically unaltered. Such an indication that the shelf ice is locally stranded in a shallow of the sea was confirmed by the observation of surface fractures and irregularities. The winter quarters of the expedition, Framheim, could therefore be established here with every assurance that this main depot of supplies would remain undisturbed.

The decision to lay out the route as nearly as possible due southward from this base proved to be in the main a wise one. Traveling over the generally even surface of the shelf ice is naturally much easier than over the high ice plateau, both because breathing is so much less difficult and for the reason that depots of provisions are separated from the base by no such serious obstacles as the steep and crevassed margin of the inland ice. Framheim was not only some seventy miles nearer the pole than the base of any of the other expeditions, but the shelf ice was found to extend a full hundred miles nearer the pole than along the Shackleton-Scott route. On the other hand, the southeasterly trend of the newly discovered Queen Maud mountain range—apparently a continuation of the Alexandra range in Victoria Land—brought Amundsen's due southerly course for a relatively long distance within the crevassed and otherwise disturbed steeper slopes on the margin of the inland ice. Instead of mounting the slope directly, as did Shackleton where the trend of the ranges

avored such a course, Amundsen crossed this difficult zone diagonally. This fact and the trend of the near-by mountain ranges explain some irregularity in wind direction which held up to near the 88th parallel. Here the highest point in the course was reached at an altitude of 10,578 feet, though it was only by consecutive instrumental readings that an extremely slight descent from this position could now be detected. From Shackleton's observations it is evident that the higher surface of the ice dome lies to the westward of his route, and these results must therefore be interpreted as due to the course crossing a radial line upon the surface.

Perhaps the most interesting scientific result of the expedition was the entry near the 88th parallel upon a region, in Amundsen's belief, of permanent calm or light winds and generally clear weather. Here the snow surface is smooth with no indications of drifting. A tent pole, 6.56 feet in length, was thrust down into it to the end without encountering any hard layers. During the fortnight spent within this area the sky was clear except on two days when at intervals snow flurries obscured the sun. The light winds were throughout from the southeast. Once, when some distance within the border of this area, during a short spell of gray weather when it was impossible to see, the course had to be kept by compass. "But, as usual, it brightened again suddenly and our vast surroundings spread out bright and warm around us. We had to take off everything—or nearly everything—and yet the perspiration poured off us." Again, on Christmas Day in latitude 88° 23' the weather was changeable, at one time clouded, then bright and clear.

On the return the inbound trail was followed and the depots of provisions easily found. The precaution had been taken to set at each station a series of marks running at intervals of a kilometer (.623 of a mile) for a distance of five and a half miles on either side of the course. These marks were pillars formed of snow blocks each tipped by a flag so marked as to give its location in reference to the route. At all stations south of the 80th parallel the route was marked by pillars each built of 60 blocks and numbering 150, a task involving the cutting of 9,000 snow blocks. This contribution to the technique of travel on both inland and shelf ice is likely to be taken advantage of by future explorers, since its merits were so fully demonstrated.

Amundsen's route to the pole measured 864 miles and the complete journey lasted 99 days. The return was made in 39 days, corresponding to an average of about 22 miles per day.

To the generally observed even surface of the Ross Barrier along the route, two exceptions must be mentioned: one, that already noted near Whale Bay, where the shelf ice is evidently aground on a shoal; and the other between the 81st and 82nd parallels, where crevasses and unevenness were likewise encountered. A happy discovery during fine weather on the return has explained the disturbance at the more southerly of the two areas. When near latitude $81^{\circ} 20'$ there was seen far off to the southeast beyond the irregular crevassed surface, a high land area and two white peaks. That this discovery combined with that of the low mountain range trending northeast near the inland-ice margin precludes a separation of East from West Antarctica cannot, however, as yet be assumed. Amundsen's map indicates clearly that two degrees of latitude on either side of this newly discovered land is still unknown. In fact, press dispatches have announced that the Japanese explorer Shirase has proven the separation. Later, and more definite information from both Filchner and Shirase will therefore be eagerly awaited.

A party commanded by Lieut. Prestrud crossed the Barrier near its margin to King Edward VII Land, and on reaching it ascended a rocky elevation 984 feet in height, which in honor of Capt. R. F. Scott was named Scott's Rocks.

The daily meteorological observations were carried out at Framheim, more than 100 miles from the nearest land mass. The results show that the winter was about 12° C. colder than at McMurdo Sound, the station of the English expeditions in Victoria Land. August was the coldest month, with an average temperature of -44.5° C. For fourteen consecutive days of this month the temperature sank to below -50° C., the minimum being -58.5° C., and the maximum for the month -24° C. In summer the temperature never rose above freezing and fell on one occasion to -50° C. The calculated annual temperature is -26° C., which Amundsen thinks the lowest anywhere observed.

The relative moisture of the air for the winter months had an average value of 90 per cent. and was at a minimum in November with 73 per cent. For the absolute moisture the highest monthly average was 2.5 mm. (in December) and the lowest 1 mm. (in August). The maximum daily value was 4.4 mm. (on December 5th).

Measured wind velocities ranged between 1.9 meters per second in May and 5.5 meters in October, an average of but 3.4 meters for the ten months. This low figure is explained by the few stormy days—

only 11 in all. As regards wind direction, the frequency in percentage shows that easterly winds greatly predominate over others (31.9 per cent.), with southwesterly and southerly winds next in order (14.3 and 12.3 per cent.), and calms prevailing a fifth of the time (21.3 per cent.). Southeasterly winds were especially rare. On examining the map it is seen that the position of Framheim with reference to inland ice sufficiently explains these facts. The near mass of plateau-ice is in King Edward Land due eastward, while the more distant ice dome of Victoria Land lies to the southwestward, the winds from the latter suffering an amount of deflection through earth rotation which is dependent upon their intensity.

The air pressure was notably low and constant. Oceanographical observations of great value were carried out during the voyage of some 8,000 nautical miles, and measurements were made at no less than sixty stations.

In a long summary of Antarctic exploration (no less than 112 pp.), which introduces the narrative, it is worthy of note that but fifteen lines are vouchsafed to Admiral Wilkes, the discoverer of the Antarctic Continent. The tenor of this reference is more remarkable even than its length. We quote (pp. 44-45):

"The American naval officer, Lieut. Charles Wilkes, left America on August 18th, 1838, with 6 ships, 83 officers, 12 scientists, and 345 men. On February 17th, 1839, this entire powerful Antarctic fleet lay in the harbor of Oranien in the southern part of Tierra del Fuego. From there the work was distributed among the different ships. Of the results of this undertaking it is difficult to say anything definite. So much is certain, that different explorers have in several places sailed over Wilkes Land. What may be the cause of these erroneous maps it is now impossible to judge. From the effect of the entire voyage it appears, however, that it was gone into as a serious undertaking."

One cannot believe that the above statements were written after a study of Wilkes's report. They sound rather like an echo to some of the hostile English criticism which had its beginning, as is well known, in the bitter resentment of Sir James Ross when he found that Wilkes had forestalled him in the discovery of Antarctica. It is true that both ends of the long stretch of coast line and barrier skirted by Wilkes (some 1,500 miles) have been sailed over; the eastern extremity by Ross, Borchgrevink and Scott in turn, and the western by the Australian explorer, Mawson. The latter has now, after three-quarters of a century, confirmed for the most part the map of

the American explorer, and eminent authorities upon the Antarctic who are more lenient than Amundsen (such as Dr. H. R. Mill, Dr. W. S. Bruce and Professor von Drygalski) have found in the almost continuous storms and fogs which Wilkes encountered and in the nature of his unstrengthened ships, a sufficient explanation of the inaccuracies in his map. The wavy lines, almost a repeating pattern, which Wilkes entered upon the map for coast, is in itself sufficient indication that he regarded it as approximate only, masked as it generally was by barrier and huge bergs; but his series of soundings, through establishing the existence of a marginal shelf, confirmed his discovery of the land.

Amundsen himself, in entering upon his own map the extension of the Queen Maud Mountains, has indicated a series of peaks extending 150 miles from a single point of observation situated upon the domed surface of the inland ice, and by a conventional symbol not unlike that of Wilkes he has continued the range another fifty miles into the distance. If future exploration should prove that he has been too optimistic in adding the more remote fifty miles of the range, no one would be warranted in saying of his expedition, "it is difficult to say anything definite."

The edition as a whole is well gotten up, but the paper and text illustrations as well as the low price, indicate that the work is intended for a large general sale and not for a library edition. An English edition is to be issued by Murray and an American by Dutton.

NOTES ON THE DESCRIPTION OF LAND FORMS.—VIII*

The Relations of Geography to Geology.

THE TERTIARY GRAVELS OF THE SIERRA NEVADA OF CALIFORNIA. By Walde-mar Lindgren. *Professional Paper 73*, U. S. Geol. Survey, Washington, 1911.

The greatest contribution to the regional geography of the United States comes at present from the U. S. Geological Survey, in the form of reports, maps and folios. It is not surprising that a large part of this information, in so far as it is presented in words, should be geologically rather than geographically phrased; that is, that it should be worded in such a way as to turn the reader's attention more to the past history of the earth—the proper domain of geology—than to the present condition of its surface—a proper domain of geography;

* Professor Davis's earlier contributions to the *Bulletin* under this title appeared in Vol. 42, 1910, pp. 671-675 and 840-844; Vol. 43, 1912, pp. 46-51, 190-194, 508-604, 679-684 and 847-853.

and it is perfectly natural that the information should be for the most part restricted to one section of the physical half of our subject, namely to land forms, while other sections of the physical half and all the ontographic half of geography should be left almost untouched. Attention is here called to these limitations, not in the least in the way of adverse comment on the well prepared geological reports issued by the Survey, but with the object of impressing our geographers with the importance of two supplementary tasks for which they are responsible: one is to rephrase the geographical material that they find in the Survey publications so as to place the proper emphasis on existing features; the other is to go on from the excellent beginning thus provided and complete the full-fledged geographical treatment of the districts concerned by adding appropriate climatic and ontographic chapters. Because one geographer specializes upon climate, and another upon land forms, and a third and a fourth upon botanical and human problems, it does not follow that any one of these specialists regards his work as constituting the whole of geography or as being more important than any other part; his work is simply the part of geography to which he is, for one reason or another, giving particular attention. If any well prepared student of the entire content of geography will combine all its parts into a well rounded whole, all the specialists will rejoice. Truisms of this kind must sometimes be explicitly stated, so as to correct misunderstandings.

Lindgren's report on the Tertiary gravels of the Sierra Nevada opens with an "outline of the later geological history" of the region, which illustrates very well the kind of non-geographical information that a geographer ought to have, because it serves so well as a background for the facts that he wishes to place in the foreground. Then comes a page on "topography," which seems to have been intentionally restricted to an empirical style, and which is certainly excellent for a description of that kind; it might be quoted as it stands by geographers who prefer the empirical over the explanatory form of treatment. It includes, however, perhaps by accident, a few explanatory phrases, such as "streams have trenched deep canyons" and "a deep basin . . . filled with alluvium"; and in view of this it is difficult to understand why the abrupt eastern slopes of the range are here described simply as "escarpments," instead of as "dissected fault scarps," particularly as the origin of the escarpments by faulting has been explicitly stated a few pages earlier. It is indeed curious why an author, who can with proved competence find his way through the complex geological history of the region, or why a Survey which has done so much towards establishing the verity of the principles of explanatory physiographic description, should hesitate to treat the subject of "topography" in an explanatory manner, instead of implying by the adoption of an empirical treatment that in their opinion such treatment is the proper one for use in a "professional paper" for expert readers.

Thirty pages with excellent plates treat of "general geology," and this treatment is, of course, in thorough-going explanatory style. These are followed by several more pages, giving a "summary of the history of the range." Then comes the main body of the paper, describing the gravels more in detail and including separate chapters for each map quadrangle. Many paragraphs here merit a geographer's study, but it is in the preceding pages that he can most directly learn what he ought to know in order to prepare an explanatory physiographic description of the central and northern parts of the Sierra. No better exercise can be given to an advanced student, who wishes to gain expertness in such description, than to rephrase the pertinent parts of this report in a geographical style, whereby the attention shall be held upon existing features, instead of being directed to the successive stages of their past history.

The range consists of a great mass of folded sediments, intruded by granites; the structural trends are from north-northwest to south-southeast. Three cycles of erosion are recognized, the second being closed by deposition of gravels and eruption of lavas before the opening of the third. Flat-topped ridges and highlands of gentle outline, sometimes surmounted by monadnocks, especially along what was probably then the crest of the range, tell of the long continued erosion of the first cycle, whereby the lofty mountains initiated by folding and intrusion were for the most part planed down to a surface of comparatively small relief. The present westward slope of the undulating highlands and their abrupt eastward termination by dissected fault scarps, somewhat on the interior side of the supposed earlier crest line, indicate the monoclinal tilting by which the second cycle was introduced. The erosion next performed is proved by the mature transverse and longitudinal valleys, 1,000 or 2,000 feet deep, whereby the highlands are abundantly dissected and in some places reduced to narrow hard-rock ridges; the best preserved highlands are in the granite areas, while some of the ridges follow greenstone belts near the present western base of the range; but a weaker granodiorite area was reduced to low relief and now rises gradually from the valley-plain of California, thus serving as a path of first ascent for the Central Pacific railroad. Heavy gravel beds, repeated lava flows, and broad floods of tuffs and breccias aggrade the mature valleys of the dissected highland. The work of the third or current cycle is seen in the narrow, steep-side canyons eroded from 1,000 to 4,000 feet beneath the gravels and lavas in the earlier mature valleys, the form of which is sometimes shown in section in the canyon walls. The dislocation of certain lava flows on the line of the eastern scarps, some of which now measure 5,000 or 6,000 feet in height, shows that the earlier faulting was renewed, probably about contemporaneous with the revival of erosion on the western slope; but the author insists that the renewed faulting is alone not sufficient to produce the increased slope of the canyon-cutting rivers.

German Adoption of Explanatory Descriptions.

BEGLEITWORTE ZU DEN "40 BLÄTTERN DER KARTE DES DEUTSCHEN REICHES 1:100,000, ausgewählt für Unterrichtszwecke, herausgegeben von der königlich Preussischen Landesaufnahme." By Walter Behrmann (*Zeitsch. Ges. f. Erdk.* Berlin, 1911, 601-624, 677-701).

As a sequel to the recent completion of the 1:100,000 map of Germany, forty sheets selected by the Prussian Survey office are offered for sale to German schools for six marks; and the Geographical Society of Berlin will add to each set a copy of the explanatory text, above cited. This liberal action must contribute to the further cultivation of geography in a country where its study is already far advanced, and all the more because an explanatory style of description has been adopted in the semi-official "Begleitworte." At the same time it is interesting to note that the chief difficulty which Behrmann found in preparing his text, which is intended for teachers and students, was due to "the insufficient morphological investigation of the Fatherland"; he met in the study of the maps many problems which are not yet discussed in geographical literature. Among numerous excellent examples, mention may be made of Sheet 46, Neustadt in West Prussen (northwest of Danzig), which includes a well defined meandering valley, incised in drift and abandoned by the large river that eroded it—probably the Vistula, when it was reinforced by ice-water and deflected westward by the retreating ice sheet—the valley now being occupied only by small streams, two of which have deposited fans on its floor opposite the ravines that they have eroded in the bordering uplands. Sheet 336, Goslar, includes the northern border of the Harz and the adjacent lowland; the Harz mass is a fault block, consisting of strongly folded Paleozoic rocks, trending southwest-northeast, and showing a highland, 500-600 meters, of subdued forms ("eingerumpft," indicating a less advanced stage of erosion than "eingeebnet"), surmounted by the granitic monadnock of the Brocken, 1,142 meters, bordered by a fault-scarp, and sharply dissected since its uplift. The piedmont area consists of inclined Mesozoic strata, trending northwest-southeast, reduced to longitudinal lowlands and ridges of small relief.

Sheets 469, Annaberg, and 494, Wiesenthal, present the gentle northward slope and the sharply dissected interior fault-scarp of the Erzgebirge, the mass of which consists of deformed schists and gneiss reduced to an old surface, now seen as an uplifted peneplain, surmounted by basalt mesas capping sandstones elsewhere stripped away; the slanting peneplain is incised by consequent streams, the headwaters of which still flow in shallow highland valleys, while the middle stretches are more deeply incised, sometimes with meandering courses (and the lower parts are shallower again near the northern base of the mountains). The crest is moor-covered, and surmounted by (residual?) summits; the southeastern scarp, of simple or compound displacement, 4-500 meters in relief, is strongly dissected; large fans are spread out beneath its ravines,

sometimes covering a lowland of crystalline rocks like those in the mountain crest. Sheet 504, Cochem, shows the central highlands of the Schiefergebirge, which consist of folded Paleozoic strata, striking northeast-southwest, reduced to a peneplain, above which quartzite ridges survive as [linear] monadnocks and on which the Mosel once flowed in a freely meandering course; a post-Miocene uplift caused deep incision by the meandering river; the spurs entering its curves exhibit finely developed undercut and slip-off slopes (*Prall- und Gleithänge*); the side streams cut sharp ravines. A belt of weak strata, a little north of the Mosel, has been etched out to a lowland, known as the Wittlicher Senke. Other examples show the dissected fault-scarps of the Odenwald (558), Schwarzwald (644), and Vosges (642); the *cuestas* (*Stufe*) near Metz (568), and south of Stuttgart (590, 606); the capture of a Danube branch by the Wutach (645), and so on.

The explanatory terminology, although here carried much farther than is usual in German essays, is not always uniform. Consequent rivers are described as *konsequent*, *Schichtflüsse*, and *Abdachungsflüsse*; subsequent is used rarely, although streams and valleys of subsequent origin are often mentioned. The time-names of geological formations are reduced to what may be called a German minimum, for their number is far below the measure ordinarily found in the geographical articles of German authors over-learned in geology. The use of such terms as Paleozoic and Mesozoic, intentionally repeated in the above abstracts so as to preserve the flavor of the original, is unfortunate, because it will give to the teachers and students of geography, to whom the *Begleitworte* are addressed, the impression that a geographical end is best served by mentioning the age of the formations concerned; whereas what the geographer needs, in forming his conception of the landscape, is not the geological age of the underlying rocks, but their composition and attitude. When it is said that the Schiefergebirge suffered "a post-Miocene uplift" the reader's thoughts are more or less turned aside from their proper course; what he needs to know is not the geological date of the uplift, but the present stage of dissection of the uplifted mass. It may be briefly noted that the bordering escarpment of the Harz is probably not, as here described, a fault-scarp in the sense that it was directly produced by faulting, but a fault-line scarp, in the sense that it has been produced by the action of erosion in removing the weaker part of a faulted mass and exposing the formerly subterranean fault-surface of the stronger part.

Rational Geography.

THE GEOGRAPHY OF GODAVARI—A DISTRICT IN INDIA. By S. W. Cushing. *Bull. Geogr. Soc. Philadelphia*, Vol. ix, 1911, pp. 7-25.

The Carnatic lowland along the eastern border of India has been described on the basis of scanty statements in the publications of the Geological Survey of India, as a young coastal plain, and as such has been regarded as an im-

portant member of its class. Opportunity for its further study came through the appointment of S. W. Cushing, of the State Normal School at Salem, Mass., to a Sheldon fellowship of Harvard University, whereby he was enabled to visit India two years ago and examine the Carnatic with some care, with the result of discovering that it possesses more varied features than had been supposed. A preliminary report of his work, quoted above, may be cited as a thoroughly rational treatment of a problem in regional geography. It first gives six pages to an explanatory physiographic account of the Godavari district; it then presents several sections on the relation of the physiographic features to the distribution, density and occupations of the people, to religion and to means of transportation. A section on climate might be advisedly added.

The six pages on land forms give a lucid account of the elevated and dissected peneplain of the inner highland, or Eastern Ghats, and their isolated outliers; of the great slope, apparently a huge sea cliff, by which a descent of 2,000 feet is made from the highland to the Carnatic lowlands, and of the three longitudinal divisions of the lowlands. The inner division, some twelve miles wide, is regarded as a plain of marine denudation, cut across the same metamorphic rocks that rise in the Ghats; the middle division is a mature belted coastal plain, about ten miles wide, with one or more *cuestas* rising outside of its inner lowland; and the outer division is a low and young coastal plain, with smooth surface and dune-bordered shore line. The Godavari river cuts across all these features, and has built a large projecting delta-plain. The verbal description is easily understood alone; but it is made still more readily intelligible by good photographs and especially by a well-designed but rather roughly executed block diagram, the value of which is so great that it must encourage other geographers to give similar graphic aids to their text. Practically all the elements of the topography are thus brought into systematic relation with one another; the physiography of the whole district is concisely described, effectively illustrated and easily conceived.

In the ontographic sections of the article, many items are brought into causal connection with appropriate physical features, and thus the entire geographical story is well knit together. How can a better idea of the location of a village be given than by saying that it stands "on a partial bridge of sandstone extending from the principal *cuesta* toward the oldland"? How can the opportunities for irrigation be better set before the reader than by generalizing them in a special block diagram, which with the text shows in the clearest manner how the "tanks" or reservoirs are related to the consequent, subsequent and obsequent streams of the *cuestas*. And yet the possibility of thus concisely pointing out the relation of human occupations to physiographic environment rests on a method of study which a British geographer has lately characterized as "an insane concentration on land forms." Mr. Cushing's fuller report will be looked for with interest.

W. M. DAVIS.

GEOGRAPHICAL RECORD

THE AMERICAN GEOGRAPHICAL SOCIETY

REGULAR MEETING OF THE SOCIETY. The first regular meeting of the Society for the season 1912-1913 was held at the Engineering Societies' Building, No. 29 West 39th Street, on Tuesday evening, November 26, 1912. Vice-President Greenough in the chair. The following persons, fifty-three in number, recommended by the Council, were elected to Fellowship:

Henry S. Adams,
Charles W. Anderson,
William D. Appleton,
Allison V. Armour,
Francis Tuttle Armstrong,
Lyndon K. Armstrong,
H. D. Auchincloss,
Charles A. Baldwin,
Herbert Barber,
Edward W. Barnes,
Edward Bell,
Philip Berolzheimer,
Cyrus T. Brady, Jr.,
L. F. Braine,
Chester A. Braman,
Frederick F. Brewster,
Arthur L. Cahn,
R. Bishop Canfield,
Mark A. Carlton,
Talbot R. Chambers,
Ambrose R. Clark,
John William Clark,
Mrs. Elizabeth Colt,
John Henry Darling,
William B. Davenport,
Henry C. Demming,

Henry Doscher,
John R. Drexel, Jr.,
Coleman du Pont,
I. N. Dutt,
Stanley Dwight,
W. L. Emery,
Amos W. Farnham,
José Ferenck,
C. Harold Floyd,
William F. Fluhrer,
Frank R. Ford,
Justus Miles Forman,
George C. Fraser,
John Shaw French,
Frederick W. Gordon,
Henry William Guernsey,
Charles J. Harrah,
Edmund Otis Hovey,
Miss Annie B. Jennings,
Julian H. Kean,
A. Wilder Pollard,
George A. Plimpton,
Augustus J. Rollé,
Benjamin Frank Seaver,
Charles Samuel Tater,
Daniel E. Willard,

J. Edmund Woodman.

The recommendation by the Council that Mr. Vilhjálmur Stefánsson, the Arctic explorer and ethnologist, be elected Corresponding Member was presented to the Society and Mr. Stefánsson was duly elected.

The Rev. George Kinney, B.A., addressed the Society on "The Conquest of the Northern Canadian Rockies" with lantern illustrations.

SPECIAL MEETING OF THE SOCIETY. A special meeting of the Society was held at the Engineering Societies' Building on Tuesday evening, December 12. Vice-President Greenough in the chair. A large audience listened to an address by Leon Dominian, B.A., formerly of Constantinople, on "The Balkan Peninsula." The lecture was illustrated by a large map and 80 typical views showing many aspects of the various Balkan states and their inhabitants. Mr. Dominian especially emphasized the geographical conditions that had made the Peninsula for many centuries the main highway between Asia and its European extension; and the national characteristics and aspirations of the Balkan races that have shaped their policies and their interrelations.

THE MEDAL TO CAPT. AMUNDSEN. The Charles P. Daly Medal for Geographical Research, voted to Capt. Roald Amundsen in recognition of his achievement of the Northwest Passage and his discovery of the South Pole will be presented to him at the meeting to be held at Carnegie Hall on January 14, when the explorer will describe his sledge journey to the southern apex of the earth.

EDWIN SWIFT BALCH A COUNCILLOR. At its November meeting the Council elected Mr. Edwin Swift Balch of Philadelphia as one of the Councillors of the Society. Mr. Balch has long been a member of the Society and has written a number of papers for the *Bulletin* in which he especially discussed Antarctic exploration and problems.

THE SOCIETY'S EXHIBITION OF PHOTOGRAPHS. The Society's Exhibition, open to the members and the general public for ten weeks in the two large rooms on the first floor, was closed on December 5. The collection comprised over 700 photographs illustrating the scenic aspects of the western half of the country, views in the North Carolina Appalachians, and a large number of typical views showing activities in the western and southern states, such as irrigation, dry farming, fruit raising, truck farming for northern market, panoramas and other views of cities, etc. Many cities, railroads and individuals contributed by their exhibits to the success of the enterprise. The attendance was over 2,500.

THE BULLETIN INDEX. The index to the present volume will be issued separately as soon as possible and mailed to all who receive the *Bulletin*. It will continue the *Bulletin* pagination so that it may appear at the end of the bound volume. As usual, it will be an analytical index with references to several thousands of items, conspicuous in the year's output of geographical literature and maps. The index will continue to be helpful to working geographers by guiding them to the most recent writings and maps relating to their various fields of study.

SOUTH AMERICA

A FRENCH DELIMITATION COMMISSION IN BOLIVIA. At the request of the Bolivian government, a French commission will have charge of the delimitation of the boundary line between Bolivia and Peru as well as between Bolivia and Argentina. The total length of frontier involved is about 500 miles. Captain Maillès of the French army will have charge of the mission. Lieut. Vincent will be his assistant. It is hoped that the undertaking of these explorers will allow them to gather data of scientific value while not actually engaged in their duties. (*Jour. de la Soc. des Amér. de Paris. Nouv. Sér. Vol. IX, Fasc. I, 1912.*)

AFRICA

CARTOGRAPHIC WORK IN MOROCCO. In a communication dated from Casablanca on Nov 8, 1912, Capt. Bellot, chief of the Moroccan topographic bureau, writes to *l'Afrique Française* (Nov. 1912, p. 437) giving an account of the progress of cartography in the new French protectorate.

The work of mapping Morocco was begun shortly after the landing of French troops at Casablanca. At the beginning of 1908 a topographic bureau was organized for the purpose of surveying the newly occupied territory. A number of topographers and geodesists of the Service Géographique de l'Armée were detailed for this work. The Service Géographique meanwhile proceeded also with its own surveys in Morocco. While the two organizations worked independently of each other, the general plan adopted was to have the topographic bureau undertake the preliminary work while the Service Géographique was entrusted with the final mapping of the various districts surveyed.

The slow but methodical occupation of the Chaouia region gave time to the workers of the Bureau Topographique to prepare a number of reliable maps between the years 1908 and 1911. Among these, the map of the Chaouia on a scale of 1:100,000, consisting of the Casablanca, Settat, Oulad-Said, Boubeker and Mechra-Ech-Chair sheets, are noteworthy. The military raids undertaken during this period also enabled the Bureau Topographique to prepare a number of itinerary maps of regions which were until then very imperfectly known. The Tadla raid in 1910 gave rise to the 1:200,000 Tadla itinerary maps, while the well-known march to Fez in 1911 was followed by the Fez itinerary map on a scale of 1:100,000.

Since the beginning of 1912 the Bureau Topographique was placed exclusively at the disposal of the local military commander-in-chief and its work since then has been confined to mapping as required by military exigencies, the

regular work of mapping Moroccan territory being entrusted entirely to the Service Géographique de l'Armée.

Between March and July, 1912, an area extending over 4,680 square miles was surveyed by this department. Three sheets entitled Rabat, Meknes and El-Ksar are about to be published as a result of this work. At present the troops are provided with a preliminary map printed at Casablanca and consisting of the sheets entitled Rabat, Mamora and Oued Sebou on a scale of 1:100,000.

According to Captain Bellot's statements the Bureau Topographique may be considered as a sort of cartographic intelligence department. The members of its staff accompany the expeditionary columns and take part in all the operations on new territory. Itinerary and reconnaissance sketch maps are prepared by them along the entire periphery of the zone of occupation and often beyond the most advanced outposts. These preliminary maps are then assembled at headquarters to form a reconnaissance map on a scale of 1:200,000 which constitutes the most important work of the Bureau Topographique. The sheets are in a state of constant revision as new data are accumulated. This necessitates issuance of successive editions in rapid sequence. About 2,500 copies of maps are issued monthly at present and it is expected that this number will be increased considerably in 1913.

By the middle of November, 1912, the preliminary work of the Bureau Topographique had attained the Fez, Meknes, Rabat and Chaouia regions. The districts south of the wadi Tensift and east of the Mechra ben Abbou-Marakesh line will be surveyed this winter while the Service Géographique will cover the Doukkala-Abda pacified zone. Maps of these districts will be published at an early date.

Apart from the 1:200,000 reconnaissance map a number of special sheets have been prepared. The Rabat-Fez, Larache and Chaouia specials have already been published. Each conveys an adequate idea of the importance of the military work confided to the Bureau Topographique. The progress of cartography in Morocco is a fair gauge of the successive stages of French penetration in that country.

LEON DOMINIAN.

ASIA

AN AEOLIAN CITY. V. A. Obruchev, Professor of Geology in the University at Tomsk, writes, in Russian, a paper with this title* describing some remarkable examples of desert wind erosion. The "aeolian city" is in the western part of Chinese Dzungaria, between the Kobuk R. and the eastern end of the Djair Mountains. The locality is called Orkhu, or Urkho, by the natives. This district has not hitherto been described. The Pevtsov Expedition camped near it in 1890. In Obruchev's two journeys (1906-07 and 1909) he carefully studied the region and took over one hundred and fifty photographs. Perhaps no other desert region has been more curiously and fantastically diversified by wind erosion than this district. The area covered by these objects is about thirteen miles long and ten miles wide. Standing under the sun of Central Asia and subject to extreme continental climatic conditions, the region is composed of horizontal beds of sandstone and clay of Mesozoic age and in part of Tertiary formations. Three ridges rising some hundreds of feet above the general level cross the area and it is these ridges that have been so marvelously cut and carved by the sand-bearing winds. The illustrations show in much variety masses of stone carved into the semblance of castles, towers, turrets, obelisks, pillars, perpendicular or inclined, and one object, named "witch tower" by the explorer, shows an excellent profile of the human face. Many of these objects, in sculptural process, have been completely separated from the ridge of which they formed a part, thus standing alone. In other places the ridges preserve their integrity excepting that their surface has been elaborately eroded.

The scene of this denudation is entirely waterless, though a little desert vegetation is found on the floors of the larger valleys. In the valley leading to the Shar-toch spring there is, however, a bit of an oasis covered with scrub

* Reprint from *Zemleviedeniye*, Vol. 18, 1911. 22 pp. Map, illa. Moscow, 1912.

and poplars as well as grass, the area being irrigated by the Diam River at flood time. Here the Mongolians lead their herds. Rare but copious rainstorms sometimes occur. Violent windstorms from the west, at intervals of from ten days to a month, occur both in summer and winter, and it is during these periods, naturally, that the process of rock carving is most intense.

H. DE HUTOROWICZ.

POLAR

AMERICAN ARCTIC ENTERPRISES. It is expected that the Crocker Land Expedition will start for the Smith Sound Region, North Greenland, early next summer to carry out some of the plans for which it was organized late in 1911. It will be remembered that the expedition did not sail in 1912 because of the lamentable death of its leader, Mr. George Borup (*Bull.*, Vol. 44, June, pp. 429-431, 1912). Dr. D. B. MacMillan will command the expedition and will be adequately supported by a small scientific staff. The party expects to be in the field three years. It is the intention to reach and map Crocker Land, which Commander Peary believed he saw in 1906 about 125 miles to the northwest of Cape Thomas Hubbard, the northern terminus of Axel Heiberg Land. A far greater and more important feature of the work will be an attempt to travel westward on the northern side of the Parry Archipelago for the purpose of ascertaining, by soundings, the position of the continental shelf in this part of the Arctic Ocean. In the effort to carry out this most desirable work the expedition will have to reconstruct in some respects the programme at first prepared for it.

Mr. V. Stefánsson is now preparing to return to the American Arctic early next summer and expects that his expedition, whose work will be chiefly geographical, will spend three winters and four summers there. The design is to complete the mapping of the coast lines of Victoria Island and Prince Patrick Island and to make three off-shore journeys. The first to the west or northwest from the northwest of Banks Land, the second west and the third north from convenient points on Prince Patrick Island. The main objects of these journeys will be the discovery and delineation of new land if there be any within reach or the determining of the continental shelf if no land be found. Tidal and meteorological observations will be systematically taken at two or more stations; and geographical data of other sorts will be gathered as far as the size of the staff of the expedition shall permit. One member of the staff will be a geologist. Mr. Stefánsson will also endeavor to determine the former range of human occupation of the Arctic Islands and the character of the culture of their inhabitants. Further archaeological and ethnological studies will be carried on.

It is too early as yet to give the detailed plans of the two expeditions. All the money involved in these enterprises will be well expended if the two parties succeed in outlining the position of the edge of the continental shelf to the north of the Arctic islands. In the opinion of the leading polar authorities the completion of this work will show conclusively whether any land masses exist to the north of the most northern coasts now established in the American Arctic Archipelago.

It is expected that both expeditions will be adequately equipped with men and supplies for a long sojourn and the achievement of the best attainable results.

RETURN OF DR. R. M. ANDERSON. Dr. Anderson of the American Museum of Natural History, who has been for four years past with Mr. Stefánsson in the American Arctic collecting specimens of animal life for the Museum, arrived in San Francisco on Nov. 1 and a few days later in New York. His collections number about 1,000 specimens of mammals and birds. He returned some weeks later than Mr. Stefánsson owing to the necessity of shipping and caring for his collections, which were finally packed away on the steam whaler *Belvedere*, Capt. S. F. Cottle, at Cape Bathurst. The whaling season was not closed and the cruise after Dr. Anderson went on board was north through Beaufort Sea to Banks Land, then west, passing Point Barrow on Sept. 28 and steaming on to Herald Island before turning homeward through Bering Strait.

DR. MAWSON'S ANTARCTIC EXPEDITION. The *Aurora*, Dr. Mawson's vessel, returned to Wilkes Land in November to bring Mawson and his party back to Australia. The *Geographical Journal* (Nov., 1912, p. 567) says that the *Aurora* arrived at Lyttelton Harbor, N. Z., on July 16, after completing a winter cruise in eastern sub-Antarctic waters. Four days were spent in the neighborhood of 140° W. Long. searching for the reported Royal Company Islands, but they were not found and Captain Davis says they do not exist where laid down on the chart. There may, however, be land in that vicinity, but the sounding machine could not be used on account of bad weather, and so this means of finding indications of shoaling or otherwise was not available. The wireless station at Macquarie Island was working well, daily weather reports being sent to Melbourne, Hobart and Wellington. The operator believes that his messages were received at Mawson's base camp in Antarctica, but as part of that apparatus is damaged the operator there was unable to transmit messages to Macquarie Island.

OBITUARY

FRANCIS MCNEIL BACON. Mr. Bacon, for thirty years a member of the Society and for twenty years a member of the Council, died on Sept. 21, 1912. A minute adopted by the Council, at its meeting on Nov. 21, said in part: "Mr. Bacon was an extensive and observant traveler, of excellent judgment and rare executive ability. He was much interested in this Society and did much to promote its success. By his uniform courtesy and consideration he endeared himself to all who had relations with him. In him the Society has lost a wise councillor, a diligent officer and a loyal supporter."

ANDREW G. AGNEW. Mr. Agnew, a member of the Society since 1885 and elected to the Council in 1908, died on Oct. 6. In the resolutions adopted at its November meeting the Council expressed its appreciation of Mr. Agnew as a useful and valued member whose sound judgment and charming personality had earned for him the admiration and affection of his fellow members.

GENERAL

CHANGE OF PUBLICATION: ERRATUM. In a note entitled "Change of Publication" in the August *Bull.* (Vol. 44, No. 8, 1912, pp. 610-611) it was inadvertently stated that the "Veröffentlichungen des Instituts für Meereskunde, etc.," had been amalgamated with the "Geographische Abhandlungen" and that the former had ceased to be published. This is not the case. Both publications continue, but each begins a new series. The Geographical Institute of the University of Berlin, however, severs its connection with the Veröffentlichungen des Instituts für Meereskunde and becomes sponsor of the Geographische Abhandlungen. The complete titles of the two publications since the inception of their new series are, therefore: "Veröffentlichungen des Instituts für Meereskunde an der Universität Berlin: Neue Folge" and "Geographische Abhandlungen: Neue Folge," with the sub-title "Veröffentlichungen des Geographischen Instituts an der Universität Berlin." The former publication has been divided into two series, viz.: "A. Geographisch-naturwissenschaftliche Reihe" and "B. Historisch-volkswirtschaftliche Reihe." In Series A two numbers have already been published: "Untersuchungen über das Pflanzen- und Tierleben der Hochsee" by H. Lohmann (Heft 1) and "Tiefenkarten der Ozeane" by Max Groll (Heft 2). In Series B one number has been issued: "Die Grundlagen der Schiffsstatistik" by Walter Vogel (Heft 1). The first number in the new series of the Geographische Abhandlungen, which constitutes No. 1 of Vol. 10, is entitled "Die Übertiefung des Tessingebiets" by Hermann Lautensach.

The Veröffentlichungen des Instituts für Meereskunde, since their inception in 1902, have been and are being published by E. S. Mittler & Sohn of Berlin. The Geographische Abhandlungen, from their inception in 1886 to 1903, were published by Eduard Hölzel of Vienna, subsequently (beginning with Vol. VII, No. 2 or No. 3) they have appeared under the imprint of B. G. Teubner of Leipzig and Berlin.

GEOGRAPHICAL LITERATURE AND MAPS

(INCLUDING ACCESSIONS TO THE LIBRARY)

BOOK REVIEWS AND NOTICES

(The size of books is given in inches to the nearest half inch.)

NORTH AMERICA

The Canadian Rockies: New and Old Trails. By A. P. Coleman. 383 pp. Maps, ill., index. Charles Scribner's Sons, New York, 1911. 9 x 6.

Dr. Coleman's book is noticeable as marking in one man's experience the beginning of and the growing interest in the Selkirk-Rocky Mountain region as a summer playground. In 1884, the date of his first visit, the valley trails were known to few, white or Indian; the literature limited to the rather indefinite accounts of early explorers and hunters, the most important being Paliser's Journal. As late as 1895 the Dominion Topographical Survey professed ignorance of details outside a known strip along the Canadian Pacific Railway. Geographically, interest centers in Dr. Coleman's attempts to reach the mythical giants, Mt. Brown and Mt. Hooker, reported to be the highest peaks between Mexico and Alaska. It is given to few men to remove mountains, and the accomplishment of this was the more dramatic as difficult trails and uncertainty of exact location delayed success until the third attempt. Mt. Robson, the real giant of the Canadian Rockies, is the hero of the last two expeditions (1907-1908). Three attempts, one from the south in the earlier, two from the northeast in the latter years, failed to gain the summit, an honor falling to Mr. Kinney, a member of Dr. Coleman's party, the preceding summer, in 1909. The earlier expeditions (1884, 1885, 1888), deal with exploration in the Selkirk region, unconsciously foreshadowing the attraction of that region for the early mountain climbers, who, like Dr. Coleman, later abandoned it for the more accessible Rockies. Covering more in time and space than any book on the region yet published, easily followed by means of an excellent map, it is especially recommended to a reader having leisure for but one book on the subject.

C. S. THOMPSON.

SOUTH AMERICA

South America. Observations and Impressions. By James Bryce. xxiv and 611 pp. Maps, index. Macmillan Co., New York, 1912. \$2.50. 9 x 6.

This record of observations and impressions during a journey through western and southern South America from Panama to Argentina and Brazil via the Straits of Magellan, while not written by a geographer, bears testimony to the fact that its compiler would have attained as much eminence in our field as he has acquired in his own had he chosen geography as his life work. That he has more than a passing knowledge of this science is well known to those who have heard his addresses before scientific bodies at Washington. The book therefore does not lack scientific merit. Above all it reveals a keen discernment of true values.

The first part contains a description of the scenery and of social and economic phenomena in the seven republics of Panama, Peru, Bolivia, Chile, Argentina, Uruguay and Brazil. This is followed by a survey of the relics of prehistoric civilization and of the native Indian population. A wide degree of familiarity with these subjects is displayed, together with fruitful application of trained thought on themes however new to the mind. The relation between South American, in contrast with North American and European conditions, is always in view, and the interest and educational value of the book are thereby enhanced. Mr. Bryce asks and gives his views on such questions

as "What type of manhood will these South American countries develop?" The significance of his work is, however, most emphasized from the economic standpoint. The chapter entitled "Some Reflections and Forecasts" is one which no student of contemporary South American growth can afford to ignore. It is here that the author's wide experience with men and in public affairs is made manifest.

The reader is often reminded of the fact that no account whatever is taken by the author of the political questions which interest our southern neighbors. It is doubtless wise for a man in Mr. Bryce's position to take this attitude, but the reader cannot help regretting that he is deprived of the benefit of Mr. Bryce's vast experience in such matters. The book, however, offers so much food for thought in other directions that it will be an inspiration and a help.

LEON DOMINIAN.

AFRICA

Die Pflanzenwelt Afrikas insbesondere seiner tropischen Gebiete.

Grundzüge der Pflanzenverbreitung in Afrika und die Charakterpflanzen Afrikas. Von A. Engler. 1. Band, 1. u. 2. Hälfte: Allgemeiner Überblick über die Pflanzenwelt Afrikas und ihre Existenzbedingungen. 1. Hälfte, xxviii und 478 pp.; 2. Hälfte, xii und 551 pp. (pp. 479-1029). Maps, ill., index. Wilhelm Engelmann, Leipzig, 1910. 10½ x 7½ each.

For more than ten years Professor Engler, Director of the Berlin Botanical Garden, has been devoting a large share of the energy of his institution to the collection and description of the African flora. A number of botanical expeditions have been sent to the German possessions and to other portions of Africa, and the earlier collections and observations of explorers have been made use of in the furtherance of this ambitious scientific campaign. The assembled results of Engler's work are now being published in a series of five volumes entitled "Die Pflanzenwelt Afrikas," the first of which, in two parts, deals with the vegetation of Africa, and is therefore of wider interest than the succeeding volumes devoted to the classification of the flora.

Engler has confessedly devoted the most attention to the German colonies, and has given us an excellent picture of the character and distribution of their vegetation. For the remainder of Africa he has given a treatment which is sometimes limited by the lack of knowledge, sometimes by the uselessness of duplicating very thoroughgoing accounts of vegetation which are already published. Such readily accessible portions of the continent as the Mediterranean coast and the Cape have been thoroughly explored by botanists and are well known both as respects their flora and their vegetation, while large areas of the interior are practically a virgin field. In spite of the unevenness which is thus given to Engler's treatment it is well for scientific purposes that he has undertaken the study of the entire continent, particularly for the solution of problems in the history and movements of the flora, to say nothing of the fact that we have thereby secured the first account of the vegetation of the whole of Africa, and an account which—as respects most of the continent—is as detailed as present knowledge will permit.

For purposes of description Engler has divided Africa into five vegetational areas: the arid northern region of the Mediterranean coast and the Sahara, in which the flora resembles that of southern Europe; tropical East Africa, a region extending from Somaliland to the Cape; a small area in the southwestern part of the Cape which is distinguished by winter rains and a markedly peculiar flora; tropical and sub-tropical West Africa, a region comprising both desert and rain-forest; and the islands off the northwest coast. The most widespread types of vegetation south of the Sahara are sparsely wooded grassland, or savanna, and the still more sparsely wooded bush-steppe, which is practically desert, although possessing a far richer vegetation than the Sahara. The regions covered by heavy rain-forest are limited on the east coast to the vicinity of Zanzibar and on the west coast to the Congo valley and narrow belts on the Guinea Coast. Apparently these forests seldom attain the density and wealth of forms which characterize the forests of the most rainy portions of Mexico and South America. The vertical distribution of

vegetation has been studied chiefly on Ruwenzori and Kilimanjaro and in the mountains of Kamerun, all of which exhibit unusual types of vegetation, and possess a flora which has close affinities with that of Europe.

Engler has not only described the physiognomy of African vegetation and given lists of the common and characteristic plants and a wealth of detail regarding their gross anatomy, but he has done more than this in continually relating the changes in character of the vegetation to the changes in physical features, in soils, and in climate. His climatological data is chiefly drawn from Hann and Fraunberger, and are designed, naturally, to give only a very incomplete conception of the distribution of climatic conditions in Africa. It is possible, however, even with the incomplete knowledge of the present time, to discover a general correlation between the most distinct types of vegetation and the most marked climatic regions, some features of which correlation find a close parallel in the southern portion of North America.

The two volumes are profusely illustrated, partly with characteristic landscapes and views of the vegetation, but chiefly with cuts showing the foliage and flowers of individual species of plants. Detailed maps of the vegetation of the four German colonies are particularly well executed.

Professor Engler has been actuated in this work not only by its scientific importance, but by a realization of the practical value which natural vegetation possesses as an index of the agricultural possibilities of the various portions of Africa. We have every admiration for the manner in which the German nation is bringing its scientific workers into cooperation in aiding the early development of its colonial possessions.

FORREST SHREVE.

Tripoli and Young Italy. By Charles Lapworth in collaboration with Miss Helen Zimmern. 347 pp. Map, ills. Stephen, Swift & Co., Ltd., London, 1912. 10s. 6d. 9 x 6.

This book attempts to define the "new Italy" recently seized by that kingdom in Africa. The author presents as comprehensively as possible the case for Italy. A review of the doings of the Turkish Government in Tripoli opens the discussion, and the indictment of Turkey is severe. So logical and forcible is the argument that the reader may be convinced that Italy's act was wholly justified. But the author perhaps weakens his case in the following chapter, which expounds the thesis that "Tripoli was a vital political necessity to Italy." The author gives a good account of the main features of Tripoli's history, estimates fairly her commercial value and is optimistic concerning her future development. The remainder of the book is an appreciation of Italy and is presented under the divisions of political, economic, intellectual and nationalist Italy. It closes with a discussion of Italy's place in European politics following her rise in prestige since the successful outcome of her Tripolitan experience. The book is entertaining and the subject-matter is carefully arranged.

ROBERT M. BROWN.

Tripoli the Mysterious. By Mabel Loomis Todd. xv and 214 pp. ills., index. Small, Maynard & Co., Boston, 1912. \$2. 8½ x 5½.

Two visits to Tripoli to view the eclipses of 1900 and 1905 gave Mrs. Todd an opportunity to get some vivid impressions concerning this country of the north of Africa. The picture which she presents is as she says "an incomplete one . . . though drawn with a loving and appreciative hand." We get slight glimpses of the white city of Tripoli, of a few of its buildings, relics and gardens, and especially of the harems, weddings, markets and funerals. However, Mrs. Todd shows herself more the astronomer than the tourist, and for this reason, probably, the chapters on the eclipses, with the fascinating city of Tripoli as a background, are especially interesting parts of the book.

ROBERT M. BROWN.

ASIA

Report on the Control of the Aborigines in Formosa. 45 pp. Maps, ills. Bureau of Aboriginal Affairs, Taihoku, Formosa, 1911. 9 x 6.

Two comparisons bearing upon this volume cannot fail of awakening surprise. The title suggests the classic remark passed between pot and kettle, for

this is the report of a Japanese Bureau of Aboriginal Affairs, and it is within the memory of men yet alive that Japan itself was a land of aborigines. But this bureau in Formosa is intelligent and active, it is grappling with the problem of civilizing the wild. The other comparison which surprises is to attempt to adjust this work to Dr. Mackay's "From Far Formosa." There is nothing to adjust, the scene of this work is in a part of Formosa of which Mackay had no knowledge, yet his work was published but fifteen years earlier. The text of the report is most succinct, it needs but 45 pages. The greater value of the volume lies in the illustrations, which are generously supplied; between page 2 and page 3 there are no less than twenty-one full-pages of process illustrations from photographs, more than a hundred in the volume, and all valuable illustrations for the ethnographer.

WILLIAM CHURCHILL.

Through India and Burmah with Pen and Brush. By A. Hugh Fisher. xii and 358 pp. Index. T. Werner Laurie, London., 1912. 15s. 9 x 6.

Mr. Fisher gives us a vivid and minute description of his journey through India and Burmah where he visited the principal cities and places of historical interest. Sent to the East as artist for the Visual Instruction Committee of the Colonial Office, England, the author had especial opportunity to meet the prominent native rulers and officials, and to obtain an insight into the lives, customs and political views of the people. The book is profusely illustrated with sketches made by the author, and eight are reproduced in color from the original paintings.

W. J. BURROUGHS.

Forschungsreise in den Südöstlichen Molukken (Aru- und Kei- Inseln).

Im Auftrage der Senckenbergischen Naturforschenden Gesellschaft ausgeführt von Dr. Hugo Merton. xii and 208 pp. Maps, ills. Senckenbergische Naturforschende Gesellschaft, Frankfurt a.M., 1910. Mks. 45. 12 x 9½.

This handsomely executed volume is pleasing evidence that the great Senckenberg Society of Frankfurt has returned to the field of inquiry in which some dozen or more years ago it ranked among the highest. In 1896 it began the publication of Kuekenenthal's zoological survey of Borneo and the Moluccas, which occupied four years in publication and which was enriched by a score of monographs by eminent investigators upon material tributary to the main theme. In returning after a decade to Indonesia the society has done wisely in selecting for publication the report of Dr. Hugo Merton upon the faunal survey of these outlying Moluccas, which, in company with Dr. Jean Roux, of Basel, occupied him from October, 1907, to August, 1908. His prime object lay along the lines of animal geography, for Aru (the Aroe of Dutch charts and thence carried in phonetic ignorance to many of our maps) and Kei are almost at the limiting point of the East Indian zoological province, and it was a matter of no little moment to determine to what extent it exhibited traces of mingling with the Papuan sub-province and the larger Australasian province. But so competent an observer could never be content to leave the cartography of Aru in the shabby confusion in which he found it. The sight of Merton's chart of this principal group of the Arafura Sea brings into fresh recollection experiences a quarter century old, both here and in Tenimber, where the channel which divides Timor-laut was still in such doubt that it had not yet been charted. Dr. Merton has done wisely in presenting as a base the Aru chart, as it was when he began his studies and in superimposing thereupon, on a perfectly registered tissue sheet, the results of his reconnaissance. Thus, at a glance we are able to see to what an extent geography is indebted to his skill in a field of research which was but incidental to the purpose of his visit. It now remains for the Dutch Admiralty to bring its charts up to this really critical date. I am dependent now upon memory, but in recollection of the three great estuaries which split the principal island, I am quite convinced that Dr. Merton's careful detail of the marsh and river systems of Sungi Maikoor, Sungi Barkai and Sungi Manumbai are undoubtedly accurate.

WILLIAM CHURCHILL.

AUSTRALASIA AND OCEANIA

Die Sunda-Expedition des Vereins für Geographie und Statistik zu Frankfurt am Main. Von Dr. Johannes Elbert. Festschrift zur Feier des 75 jährigen Bestehens des Vereins. Band 1. xxv and 274 pp. Maps: ills. Hermann Minjon, Frankfurt am Main, 1911. Mks. 40. 12 x 9.

This Indonesian volume is a worthy offering in celebration of the third quarter century of the fourth in age of the world's great geographical societies, the next to the oldest in Germany. In this first volume Dr. Elbert deals with Lombok, Muna, Buton and the southeastern peninsula of Celebes. The last of these fields of survey comes with particular interest as supplementing the brilliant record which for the rest of Celebes we owe to the cousins Sarasin. Those able explorers were obliged to leave the field before they had ventured upon this peninsula; therefore we are grateful that the omission has been so promptly and so carefully supplied. The prime object in Dr. Elbert's work was vulcanography and geoplastics as dependent thereupon. But his observation was by no means restricted. We note the intelligent curiosity with which he has studied the cloud masses capping the higher mountains and feel sure that meteorologists will find much satisfaction in his explanation of the atmospheric physics of earth-generated air currents directed upward by mountain slopes. In ethnography he is similarly alert in the study of all the material which it was within his power to examine. In linguistics he has provided a small supply of material from Muna and promises later a vocabulary of 700 words. In the small material which he offers here we find the suggestion of a most important matter. We now regard the intermingling of the Malayan (more properly Indonesian) languages and the Polynesian, amounting at the outside to less than 150 vocabularies, as due to a persistence of early Polynesian ancestors in retired spots when the oncoming of the Indonesian parents was expelling the former inhabitants. In this Muna material we note that forms identifiable as Polynesian are far closer to the Proto-Samoan than the cognate forms in Malay or Buton. Muna is a small outlier of the southeastern Celebes peninsula; the corresponding outlier of the southwestern peninsula is Salayer, also exhibiting close similarities with the Proto-Samoan speech. In the next work of my series upon Polynesia I shall point out the fact that the honorific title of our American island of Tutuila in Samoa is "Le motu o Salaia," the island of Salaia, a term incomprehensible in Samoan, unrecognizable elsewhere save at this distant tip of Celebes.

WILLIAM CHURCHILL.

Wissenschaftliche Ergebnisse einer amtlichen Forschungsreise nach dem Bismarck-Archipel im Jahre 1908. II: Beiträge zur Völker- und Sprachenkunde von Deutsch-Neuguinea. Von Dr. Georg Friederici. vi and 324 pp. Map, ills. *Mitt. aus den Deutschen Schutzgebieten*, Ergänzungsheft Nr. 5. Ernst S. Mittler & Sohn, Berlin, 1912.

This is one of the books rare in the experience of those whose lives are passed in the society of printed pages, one that a writer would feel proud to have written. It is not that the training of the German ethnologist is superior to the random methods and rarely inspired blundering of English and American practitioners of that science of the byways of the wild; it is not that Captain Friederici is an accurate observer, for there have been many accurate German explorers; it is his sympathy with the simple, his breadth of knowledge of the world and the men thereof, which give this volume a charm which enriches its great value.

The region studied is the western tip of Neupommern, over against New Guinea, especially the Barriai people. This is breaking new ground. Ages ago stands the brief discovery record of Dampier; there has been no second. Neither trader nor missionary has sought out this folk; when Friederici visited them they had undergone almost no contamination by the trickle of strange custom and foreign goods at second or third or later hand, each hand grasping and clutching and passing little onward. We feel a sense of security in following out this record. For one thing it is so complete; no least detail is omitted; there

is statement of each most intimate activity of the life of these savages; it is all set down, and the sum is not diminished by omission of any particulars which the subjects of the inquiry see no reason to hide from sight or to omit from speech. But of far more importance is it that the recorder does not pretend to understand all the things which he has observed; he does not assume to explain, it is enough for him to record. This is quite as it should be. The savage does not think as we do, the categories of his reasoning are scarcely associable with our logic; the longer the student has to do with such folk the less inclined he is to venture upon explanation of thought and conduct.

To cartography Captain Friederici has given accurate determinations of coast for considerable distances along the unknown north shore of Neupommern, and at the western limit of his activity he has filled in a large mass of detail for the interior of the island. His linguistic results are admirable. He gives at very satisfactory length a vocabulary of the Barriai and his grammatical discussion thereof is excellent of its type, although I must feel that the speech usage of Melanesians and Polynesians will yield more satisfactory results under a different and simpler treatment. This major vocabulary is supplemented by brief records of several languages with which he had less satisfactory opportunity of becoming acquainted.

The breadth of his view is excellently illustrated in the ethnographic employment of vocabulary material upon certain selected themes. He has devoted much care to the examination of the canoe and of the weapons of offence, the spear, the bow and arrow, the sling. In each case he carries the record from the western limit of Indonesia to the eastern ultimate of Polynesia, and the speech record is used to trace the path of migration. I may properly note that in the Barriai vocabulary I have been able to identify material of the so-called Malayo-Polynesian speech. It lies wholly within that small group of common vocables which I have sought to establish as Polynesian left behind by the brown race on its wanderings. Its occurrence in the Barriai, midway between Moanus and the similarly affected languages of southeast New Guinea, shows clearly that Dampier's Strait was an open highway to the Polynesian fleet.

WILLIAM CHURCHILL.

ECONOMIC GEOGRAPHY

Checking the Waste. A Study in Conservation. By Mary Huston Gregory. 318 pp. Uls. Bobbs-Merrill Co., Indianapolis, 1911. \$1.25, 7½ x 5.

The author has gathered a great deal of material and tells of it attractively. There is no chapter without good matter. We destroy more coal in mining it than we get out, and our supply will be gone in 139 years. Our lumber will last, in commercial quantities, but 25 years. Our locomotives need three times as much coal to do a given task as English ones. Oil drillers are burning gas to get rid of it, in one case in Indiana fourteen wells burning for six months within a space of a few acres. Worst of all, 500,000 American workers are annually killed or crippled at their work by preventable accidents.

But when the author adds that we are wasting 30,000,000 horse power in unused waterfalls she is using waste in another sense. The power is still there for the next generation. She has no protest for the water powers and other resources that are being stolen from the people by the few, that another generation may use only by permission of "owners" who have no equitable title. Nor can the statements of the book be all accepted. Kansas has not had its rainfall increased by tree and crop planting (p. 44). Dry farming is not merely deep plowing and packing under a pulverized surface (p. 38). The using, even to exhaustion, of resources like iron, lead, silver and petroleum, cannot be called waste (p. 300). Hilltops are not always the poorest land on the farm (p. 33). Nor is the land of valleys enriched by the wash from deforested hillsides (p. 32). It is not true that you can get twenty bushels of wheat from an acre of land with the same labor as twelve (p. 14). It is extravagant to say that hundreds of millions of arid acres have been or may be irrigated (p. 107). Such statements are too frequent.

MARK JEFFERSON.

OTHER BOOKS RECEIVED

NORTH AMERICA

REPORT OF THE DOMINION OF CANADA GOVERNMENT EXPEDITION to the Arctic Islands and Hudson Strait on Board the D.G.S. *Arctic*, 1908-9. By Captain J. E. Bernier. xxix and 529 pp. Maps, ill., index. Govt. Printing Bureau, Ottawa, 1910. 9½ x 6½. [The cruise of the *Arctic* and the taking possession for Canada of the Arctic archipelago north of the American mainland.]

THE HOOSAC VALLEY. Its Legends and Its History. By Grace Greylock Niles. xxv and 584 pp. Maps, ill., index. G. P. Putnam's Sons, New York, 1912. \$3.50. 8½ x 6. [The story of beginnings in Hoosac and Safatoga, and their relation to U. S. history. Told in a pleasant style.]

CENTRAL AMERICA

JOSEPH PENNELL'S PICTURES OF THE PANAMA CANAL. Reproductions of a Series of Lithographs made by him on the Isthmus of Panama January-March, 1912, together with Impressions and Notes by the Artist. 28 chapters. J. B. Lippincott Co., Philadelphia, 1912. \$1.25. 10 x 7½.

SOUTH AMERICA

ALTO BRASILE. Missione e Colonie dei Cappucini Lombardi. Notizie storiche, geografiche, etnografiche, ecc. By P. Timoteo Zani da Brescia. viii and 514 pp. Fratelli Lanzani, Milano, 1911. 8 x 5½. [An account of missionary activity, with occasional notes of scientific value.]

A THOUSAND MILES IN A DUG-OUT: Being the Narrative of a Journey of Investigation among the Red-skin Indians of Central Brazil. By Frederick C. Glass. With Preface by Rev. J. Stuart Holden. 85 pp. Map, ill. South American Evangelical Mission, London, 1911. 7½ x 5. [The customs and present condition of the Caraja Indians are described.]

DICCIONARIO GEOGRÁFICO DEL URUGUAY. Por Orestes Araújo. Segunda Edición, completamente reformada y aumentada con más de 1,000 voces nuevas. vii and 528 pp. Ills. Ministerio de Relaciones Exteriores, Montevideo, 1912. 10 x 7. [Not a mere gazetteer, but comprises also subjects of general geographical interest, such as a list of Uruguayan railroads and their mileage. Names and subject-topics in alphabetical sequence.]

AFRICA

LIBYA ITALICA. Terreni ed Acque, Vita e Colture della Nuova Colonia. By P. Vinassa de Regny. xv and 214 pp. Maps, ill. Ulrico Hoepli, Milan, 1913. Lire 7.50. 9½ x 6½. [Contains notes of interest on the geology, hydrography and agronomy of the Tripoli hinterland.]

LE MAROC. Notice économique. Par Ch. René-Leclerc. 2ème Edition. Bibliothèque Marocaine, 1ère Série. 91 pp. Map. Paul Geuthner, Paris, 1912. Fr. 1.25. 8½ x 5½. [General information on Morocco. Useful for intending travelers.]

MOROCCO IN DIPLOMACY. By E. D. Morel. xxii and 359 pp. Maps, index. Smith, Elder & Co., London, 1912. 6s. 8 x 5½. [An account of recent British and German diplomatic action over French activity in Morocco. The author criticizes the attitude of his country's government as having tended to strain Anglo-German relations.]

ASIA

DIE KOLONISATION SIBIRIENS. Eine Denkschrift. Von P. A. Stolypin and A. W. Kriwoschein. Einzige berechtigte Übersetzung von Carl Erich Gleye. vi and 163 pp. Map. Hermann Paetel, Berlin, 1912. 10 x 7½. [An insight into the natural resources of Siberia and their development.]

NEUE KAUKASISCHE REISEN UND STUDIEN. Von C. v. Hahn. vii and 287 pp. Duncker & Humblot, Leipzig, 1911. Mk. 6. 9 x 6. [Natural history notes on the Caucasus. Climate and fauna described.]

RELIGION IN CHINA. *Universism: A Key to the Study of Taoism and Confucianism.* By J. J. M. de Groot. xv and 327 pp. Index. G. P. Putnam's Sons, New York, 1912. \$1.50. $8\frac{1}{2} \times 5\frac{1}{2}$. [One of a series of American lectures on the history of religions delivered under the auspices of the American Committee for Lectures on the History of Religions.]

AUSTRALASIA

OFFICIAL YEAR BOOK OF THE COMMONWEALTH OF AUSTRALIA, Containing Authoritative Statistics for the Period 1901-1911 and Corrected Statistics for the Period 1788 to 1900. No. 5, 1912. By G. H. Knibbs. xl and 1277 pp. Maps, index. Commonwealth Bur. of Census and Statistics, Melbourne. $9\frac{1}{2} \times 6\frac{1}{2}$. [An exceedingly thorough compilation of statistics.]

EUROPE

DIE PFLANZENWELT DALMATIENS. Von Prof. Dr. Lujo Adamović. 137 pp. Ills., index. Dr. Werner Klinkhardt, Leipzig, 1911. Mk. 4.50. $7\frac{1}{2} \times 5$. [A preliminary sketch of the flora of Dalmatia. Numerous photographs.]

SOUTHERN ITALY AND SICILY with Excursions to Sardinia, Malta, and Corfu. Handbook for Travelers. By Karl Baedeker. 16th revised edition. lvi and 508 pp. Maps, plans, index. Karl Baedeker, Leipzig, 1912. $6\frac{1}{2} \times 4\frac{1}{2}$. [The information regarding Naples and its environs has been carefully verified. Maps and plans of material assistance to the traveler.]

LES ALPES DE SAVOIE (premier volume). Les massifs entre l'Arc et l'Isère. Guide pour l'Alpiniste. Par Émile Gaillard. xvii and 223 pp. Maps. C. Faure, Macon, 1912. Frs. 7.50. $7 \times 4\frac{1}{2}$. [Specially written for the mountain-climber. Topographic descriptions carefully prepared with this aim in view.]

VOYAGE EN FRANCE. 14e Série. La Corse. Par Ardouin-Dumazet. 3ème édition. vi and 383 pp. Maps, ill., index. Berger-Levrault, Paris, 1911. Frs. 3.50. $7\frac{1}{2} \times 4\frac{1}{2}$. [Vivid descriptions of Corsica with sketches on its unexploited natural resources.]

THE ISLE OF WIGHT. Described by Edward Thomas. Pictured by E. W. Haslehurst. 64 pp. Blackie & Son, Ltd., London, 1911. 2s. 9×7 . [Impressions and memories agreeably related.]

THE MARLBOROUGH COUNTRY. Notes Geographical, Historical and Descriptive on Sheet 266 of the One-Inch Ordnance Survey Map. By H. C. Brentnall and C. C. Carter. 171 pp. Ills., index. Amer. Branch, Henry Frowde, London, 1912. 2s. 6d. $6\frac{1}{2} \times 4\frac{1}{2}$. [A good school-book.]

THE ROMANIZATION OF ROMAN BRITAIN. By F. Haverfield. 2nd edition, greatly enlarged. 70 pp. Ills., index. Amer. Branch, Clarendon Press, Oxford, 1912. \$1.15. 9×6 . [Originally read to the British Academy in 1905. The present edition contains additional text and illustrations.]

ANTHROPOLOGY

L'UOMO SECONDO LE ORIGINI, L'ANTICHITÀ, LE VARIAZIONI E LA DISTRIBUZIONE GEOGRAFICA. Sistema Naturale di Classificazione. By G. Sergi. xxvii and 421 pp. Map, ill. Fratelli Bocca, Torino, 1911. Lire 20. $9\frac{1}{2} \times 6\frac{1}{2}$. [A synthetic review of man.]

GENERAL

THE NEW NAVIGATION. Presented in a Familiar Way for Captains and Officers of the Merchant Service. By F. C. Cross. 29 pp. James Brown & Son, Glasgow, 1911. 2s. $8\frac{1}{2} \times 5\frac{1}{2}$. [A familiar exposition of the "Marcq St. Hilaire" method, with examples illustrating its application.]

WEATHER SIGNS AND HOW TO READ THEM. For Use at Sea. By William Allingham. 117 pp. Charts, ill. James Brown & Son, Glasgow, 1912. 2s. 7×5 . [The rising generation of mariners whose familiarity with the weather is less than those of the sailing ship era will derive much needed knowledge from the author's experience.]

CURRENT GEOGRAPHICAL PAPERS

NORTH AMERICA

United States

- ASSADA, I. La genèse des Grandes Plaines aux États-Unis. *La Géogr.*, Vol. 25, 1912, No. 5, pp. 368-371.
- ATWOOD, W. W., and K. F. MATHER. Evidence of Three Distinct Glacial Epochs in the Pleistocene History of the San Juan Mountains, Colo. *Maps. Journ. of Geol.*, Vol. 20, 1912, No. 5, pp. 385-409.
- BLAIR, W. R. Free Air Data at Mt. Weather for Jan., Feb. and March, 1912. Diagrams. *Bull. Mt. Weather Observ.*, Vol. 5, 1912, Part 1, pp. 18-82.
- BOUTWELL, J. M. Geology and Ore Deposits of the Park City District, Utah. 231 pp. Maps, ills., index. *Prof. Paper 77, U. S. Geol. Surv.*, 1912.
- BOWIE, W. The Texas-California Arc of Primary Triangulation. [The work done was summarized in the *Bulletin*, Vol. 43, 1911, pp. 447-48.] Maps, ills., index. *Special Public. No. 11, Coast and Geod. Surv.*, 1912.
- BROOKS, A. H. The Alaska Mining Industry in 1911 and Railway Routes in Alaska. 90 pp. Maps, diagrams. *Bull. 520-A, U. S. Geol. Surv.*, 1912.
- BROOKS, A. H. Alaska Mining Industry in 1911 and Railway Routes in Alaska. 90 pp. Maps. *Bull. 520-A, U. S. Geol. Surv.*, 1912.
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NEW MAPS

EDITED BY THE ASSISTANT EDITOR

MAPS ISSUED BY UNITED STATES GOVERNMENT BUREAUS

U. S. GEOLOGICAL SURVEY

Topographic Sheets

(Including Combined and Special Topographic Maps)

Arizona. (a) Flagstaff Quadrangle. Surveyed in 1907 and 1908. 1:125,000. 35°30' - 35°0' N.; 112°0' - 111°30' W. Contour interval 100 ft. Edition of June 1912.

(b) Roosevelt Quad. Surveyed in 1905-1907. 1:125,000. 34°0' - 33°30' N.; 111°30' - 111°0' W. Interval 100 ft. Edit. of Aug. 1912.

Arkansas. Hot Springs and Vicinity. Surveyed in 1896, revised in 1910-11. 1:62,500. 34°37' 57" - 34°22' 57" N.; 93°10' 47" - 92°55' 47" W. Interval 20 ft. Edit. of Aug. 1912.

[Comparison with the edition of April, 1898, brings out well the improvement in methods of topographic mapping since that time.]

California. (a) Buena Vista Lake Quad. Surveyed in 1907-1908-1910. 1:125,000. 35°30' - 35°0' N.; 119°30' - 119°0' W. Interval 100 ft. Edit. of Aug. 1912.

(b) Coalinga Quad. Surveyed in 1908 and 1910. 1:125,000. 36°30' - 36°0' N.; 120°30' - 120°0' W. Interval 100 ft. Edit. of July 1912.

(c) Mariposa Quad. Surveyed in 1909-1910. 1:125,000. 37°30' - 37°0' N.; 120°0' - 119°30' W. Interval 100 ft. Edit. of July 1912.

(d) Nord Quad. Surveyed in 1910. 1:31,680. $39^{\circ}52'30''$ - $39^{\circ}45'0''$ N.; $122^{\circ}0'0''$ - $121^{\circ}52'30''$ W. Interval 5 ft. Edit. of Aug. 1912.

[One of the two-inches-to-the-mile sheets of the Sacramento Valley.]

Illinois. Canton Quad. Surveyed in 1910. 1:62,500. $40^{\circ}45'$ - $40^{\circ}30'$ N.; $90^{\circ}15'$ - $90^{\circ}0'$ W. Interval 20 ft. Edit. of Aug. 1912.

[Wooded areas shown in green.]

Maryland-Pennsylvania. Hagerstown Quad. Surveyed in 1908-1910. 1:62,500. $39^{\circ}45'$ - $39^{\circ}30'$ N.; $77^{\circ}45'$ - $77^{\circ}30'$ W. Interval 20 ft. Edit. of June 1912.

[Wooded areas shown in green.]

Maryland-Virginia. Point Lookout Quad. Surveyed in 1890; culture revised in 1900. 1:62,500. $38^{\circ}15'$ - $38^{\circ}0'$ N.; $76^{\circ}30'$ - $76^{\circ}15'$ W. Interval 20 ft. Edit. of Sept. 1912.

Montana. Zurich Quad. Surveyed in 1902 and 1909. 1:125,000. $49^{\circ}0'$ - $48^{\circ}30'$ N.; $109^{\circ}30'$ - $109^{\circ}0'$ W. Interval 20 ft. Edit. of Aug. 1912.

[Southern half reduced from Chinook and Yantic sheets, 1:62,500.]

New Mexico. (a) Magdalena District. Surveyed in 1910. 1:12,000. $34^{\circ}7'0''$ - $34^{\circ}3'15''$ N.; $107^{\circ}13'0''$ - $107^{\circ}10'45''$ W. Interval 25 ft. Edit. of Sept. 1912.

(b) Mogollon Quad. Surveyed in 1909-1910. 1:125,000. $33^{\circ}30'$ - $33^{\circ}0'$ N.; $109^{\circ}0'$ - $108^{\circ}30'$ W. Interval 100 ft. Edit. of June 1912.

Ohio. (a) Carrollton Quad. Surveyed in 1910. 1:62,500. $40^{\circ}45'$ - $40^{\circ}30'$ N.; $81^{\circ}15'$ - $81^{\circ}0'$ W. Interval 20 ft. Edit. of June 1912.

(b) Columbus Quad. Surveyed in 1899, 1901 and 1902. 1:125,000. $40^{\circ}15'$ - $39^{\circ}45'$ N.; $83^{\circ}15'$ - $82^{\circ}45'$ W. Interval 20 ft. Edit. of Aug. 1912.

[Reduced from Dublin, East Columbus, West Columbus and Westerville sheets, 1:62,500.]

(c) Oak Hill Quad. Surveyed in 1910. 1:62,500. $39^{\circ}0'$ - $38^{\circ}45'$ N.; $82^{\circ}45'$ - $82^{\circ}30'$ W. Interval 20 ft. Edit. of June 1912.

[On sheets (a) and (c) wooded areas in green.]

Pennsylvania. McCalls Ferry Quad. Surveyed in 1910. 1:62,500. $40^{\circ}0'$ - $39^{\circ}45'$ N.; $76^{\circ}30'$ - $76^{\circ}15'$ W. Interval 20 ft. Edit. of June 1912.

[Wooded areas in green.]

Washington. Moses Lake Quad. Surveyed in 1910. 1:62,500. $47^{\circ}15'$ - $47^{\circ}0'$ N.; $119^{\circ}30'$ - $119^{\circ}15'$ W. Interval 25 ft. Edit. of Aug. 1912.

West Virginia. (a) Bald Knob Quad. Surveyed in 1910. 1:62,500. $38^{\circ}0'$ - $37^{\circ}45'$ N.; $81^{\circ}45'$ - $81^{\circ}30'$ W. Interval 50 ft. Edit. of July 1912.

(b) Holden Quad. Surveyed in 1910. 1:62,500. $38^{\circ}0'$ - $37^{\circ}45'$ N.; $82^{\circ}15'$ - $82^{\circ}0'$ W. Interval 50 ft. Edit. of Sept. 1912.

(c) Portions of Matewan and Williamson Quads. 1:62,500. $37^{\circ}45'$ - $37^{\circ}31'30''$ N.; $82^{\circ}20'$ - $82^{\circ}0'$ W. Interval 50 ft. Edit. of Sept. 1912.

[On all three sheets wooded areas in green. Kentucky portion of map (c) left blank.]

UNITED STATES—CANADA. North America. 1:1,000,000. [Sheet] North K 19: Boston. 44° - 40° N.; 72° - 66° W. 14 colors. U. S. Geological Survey, Washington, Feb. [Oct.] 1912. 40 cents.

[For detailed comment on this first sheet completed of the U. S. portion of the International Map of the World (preliminary proof listed in *Bull.* under the same entry, Vol. 44, No. 5, 1912, p. 399), see the *Nov. Bull.*, pp. 842-844.]

NORTH AMERICA

CANADA

CANADA. Grenzerweiterungen der Provinzen Quebec, Ontario, und Manitoba in Kanada. 1:25,000,000. 65° - 40° N.; 103° - 55° W. Accompanies note on "Die erweiterten Provinzen von Kanada" by H. Wichmann, *Pet. Mitt.*, Vol. 58, I, June, 1912, p. 319.

[Shows changes in boundaries of Manitoba, Ontario and Quebec according to the law passed on March 27 and 28, 1912, which gave Manitoba access to Hudson Bay and apportioned the respective parts of Keewatin and Ungava to Ontario and Quebec.]

UNITED STATES

ALASKA. (a) Gletscher des unteren Kupferflusses (Alaska). Von Prof. Lawrence Martin. 1:65,000. [60°50' - 60°38' N.; 144°52' - 144°27' W.] Oriented N. 21° E. 3 colors. With inset: Das Gebiet des Kupferflusses. Nach der "Karte von Alaska" in "Peterm. Mitteilungen," 1907, Tafel 1. 1:5,000,000. [64°-59° N.; 149°-139° W.] 3 colors.

(b) Tiefenkarte von Port Wells (Prinz-William-Sund). 1:126,720. [61° N. and 148° 10' W.]

Accompany, as Taf. 9 and on p. 148, respectively, "Gletscheruntersuchungen längs der Küste von Alaska" by L. Martin, *Pet. Mitt.*, Vol. 58, II, Aug. and Sept., 1912, pp. 78-81 and pp. 147-149.

ILLINOIS. Provisional Geologic Map of Illinois. 1:500,000. 12 colors. State Geological Survey [Urbana, Ill.], 1912.

[Fundamental geological map of the state. Geology superimposed on base map of Illinois listed in *Bull.*, Vol. 44, No. 5, 1912, p. 399. Columnar and cross sections added; also outline of the geological history of Illinois.]

MEXICO

MEXICO. [Five state maps, 1:1,000,000, entitled:] (1) Map of the State of Sinaloa, Mexico. Compiled by H. A. Horsfall, New York City. 1912. 27½° - 21¾° N.; 110° - 104° W. 4 colors. (2) — Durango —. 1912. 27½° - 21¾° N.; 107½° - 102½° W. 6 colors. (3) — Coahuila —. 1911. 30° - 24½° N.; 104° - 99° W. 2 colors. (4) — Chihuahua —. 1911. 32¼° - 24½° N.; 109½° - 102½° W. 5 colors. (5) — Sonora —. (Advance copy, 1913). 33° - 25½° N.; 115° - 108½° W. 5 colors. Published by H. A. Horsfall, Mining Engineer, 69 Wall St., New York, N. Y.

[Maps, valuable because of their large scale, showing mainly the locational element. Relief is roughly indicated by hachuring. The maps are reproduced directly from the original drawings on tracing cloth.]

CENTRAL AMERICA AND WEST INDIES

CUBA. Map of Cuba prepared in the War College Division, General Staff, War Department, Washington, 1911. Based on Military Reconnaissances by the United States Army during the First and Second occupation of Cuba, 1898-1902 and 1906-1909. [1:600,000.] 23°30' - 19°30' N.; 85° - 74° W. 2 colors. In two sheets. War Department, Washington, 1911.

[Important map on relatively large scale, in execution similar to the U. S. Geological Survey maps. Distinction made between four kinds of roads; relief in brown contours, interval 50 ft.]

JAMAICA. A part of Jamaica showing the Relation of Earthquake Damage (14th Jan. 1907) to Erosion of Land. 1:750,000. [18°30' - 17°45' N.; 77°20' - 76°0' W.]. Accompanies, on p. 301, "On the Cause of the Jamaica Earthquake of January 14, 1907" by V. Cornish, *Geogr. Journ.*, Vol. 40, No. 3, 1912, pp. 299-303.

[Relief in contours; interval 1,000 ft.]

SOUTH AMERICA

CHILE. Karte des südwestlichen Teiles der Provinz Coquimbo in Chile. Aufgenommen von der Oficina de geografia i [sic] minas unter Leitung von José del C. Fuenzalida. 1:200,000. 30°30' - 31°30' S.; 71°46' - 70°50' W. 7 colors. Taf. 56, "Zur geographischen und geologischen Landesaufnahme der Republik Chile" by J. del C. Fuenzalida and H. Polakowsky, *Pet. Mitt.*, Vol. 58, I, June, 1912, pp. 312-316.

[Valuable large-scale map which forms part of a map entitled "Carta geográfica y minera de la provincia de Coquimbo" engraved and printed by Justus Perthes for the Chilean Oficina de Geografía y Minas. Reliefs is shown in pale and unexpressive shading and in hypsometric coloring in six tints. Distinction is made between railroads in existence and under construction, roads for wheeled traffic and bridle paths, and there are separate symbols for seven kinds of mines.

Of the greater part of the region shown there has been no adequate large-scale map heretofore. Similar maps of the province of Aconcagua and parts of the provinces of Santiago, Valparaíso and Atacama have already been published by this bureau; maps of the provinces of Arauco, Concepcion and Valdivia are in preparation.]

AFRICA

BECHUANALAND-GERMAN SOUTHWEST AFRICA, ETC. Die Kalahari mit ihren Völkern und Handelsrouten. Entworfen von Dr. Rudolf Pöch. 1:2,000,000. 17°-31° S.; 16½°-29¼° E. 1 color. Taf. 2, "Ethnographische und geographische Ergebnisse meiner Kalaharireisen" by R. Pöch, *Pet. Mitt.*, Vol. 58, II, July, 1912, pp. 15-20.

[Important map embodying the results of all previous exploration. Special features are: the delimitation of the Kalahari, the dune region of its southwestern part being specially represented; the careful distinction between dry river beds and perennial rivers, and between constant and transitory springs or "pans"; the designation of the habitat of native tribes; the representation of trade routes through arid districts, and the careful orthography of all geographic names. In addition there are symbols for settlements or villages, mission stations, abandoned places, mines, farms, military and police stations, railroads, territorial and negro reservation boundaries, etc. A list of the sources used in compiling the map is given on p. 18 of the text.]

MOROCCO. (a) Die Hochebenen westlich des Uad Beth [*sic*]. Entworfen und gezeichnet von Prof. Dr. P. Schnell (P. Schnell: Zur Kartographie von Nordmarokko: Blatt II). 1:200,000. 34°23'-33°41' N.; 7°2'-5°58' W. 4 colors.

(b) Übersichtskarte der Peilungen zu Blatt 2: Die Hochebenen westlich des Uad Beht und Blatt 3: El Gharb. (Zur Kartographie Nordmarokkos). Von Prof. Dr. Paul Schnell. 1:300,000. [35°-34° N.; 6°49'-5°7' W.]

Taf. 8, "Zur Kartographie Nordmarokkos: II" and Taf. 21, "Zur Kartographie Nordmarokkos: III" by P. Schnell, *Pet. Mitt.*, Vol. 58, II, 1912, Aug., pp. 75-77 and Sept., pp. 137-142, respectively.

[Continuation of series listed under "Morocco" (first entry), *Bull.*, Vol. 44, No. 2, 1912, p. 157, the eastern limiting meridians of which should there be corrected to read 4°58' W. and 4°57' W., respectively, instead of 40°58' and 40°57'.]

NIGERIA. Northern and Southern Nigeria to illustrate the paper by C. L. Temple, C.M.G. 1:5,000,000. 14°30'-4°0' N.; 2°0'-15°30' E. 1 color. Accompanies "Northern Nigeria" by C. L. Temple, *Geogr. Journ.*, Vol. 40, No. 2, 1912, pp. 149-168.

[Outline map showing drainage, railroad and telegraph lines and the author's route.]

ASIA

ARABIA. B. Raunkiaers Reiseweg im nordöstlichen Arabien. 1:7,500,000. 31°-24° N.; 44°-50½° E. Accompanies, on p. 85, "Die Expedition der kgl. Dänischen Geographischen Gesellschaft nach Arabien" by B. Raunkiaer, *Pet. Mit.*, Vol. 58, II, Aug., 1912, pp. 84-85.

[Route of expedition reported in Sept. *Bull.* (Vol. 44, No. 9, 1912), pp. 657-660.]

INDIA. Panjkora Kohistan. Sketch Map to Illustrate the Route of Lieut. Colonel S. H. Godfrey, C.I.E., 1908. 1:500,000. 35°36'-35°6' N.; 71°45'-72°27' E. With inset: 1:3,000,000. 36°6'-34°0' N.; 71°-73° E. Accompanies, on p. 47, "A Summer Exploration in the Panjkora Kohistan" by S. H. Godfrey, *Geogr. Journ.*, Vol. 40, No. 1, 1912, pp. 45-57.

[Route, hitherto untrodden by a European, lay up the Panjkora River, which occupies the second parallel valley to the west of the Indus at the bend where it breaks through the Himalayas. Relief in wash.]

INDIA. Northern Sikkim. To illustrate the paper by Dr. A. M. Kellas. 1:300,000. 28°8'-27°33' N.; 88°-89° E. 2 colors. With inset showing loca-

tion of main map. Accompanies "The Mountains of Northern Sikkim and Garhwal" by A. M. Kellas, *Geogr. Journ.*, Vol. 40, No. 3, 1912, pp. 241-263.

[Relief in brown wash, glaciers in blue.]

JAPAN. (a) Übersichtskarte von West-Hokkaido. Nach I. Friedländer, Über einige Japanische Vulkane. Mitteilungen der Deutschen Gesellschaft für Natur- und Völkerkunde Ostasiens (XII, 2, 1910). Auf Grundlage der topographischen Karte des Imperial Geological Survey of Japan. 1:762,000. 43°24' - 41°18' N.; 139°12' - 142°2' E. 2 colors.

(b) Kartenskizze des Usu. Nach der Karte von F. Omori und Beobachtungen von I. Friedländer. 1:18,150. [42°36' N. and 140°48' E.]. 3 colors.

Taf. 51 and 52, "Über den Usu in Hokkaido und über einige andere Vulkane mit Quellkuppenbildung" by I. Friedländer, *Pet. Mitt.*, Vol. 58, I, June, 1912, pp. 309-312.

[Map (a) shows location of recent volcanoes and hypothetical faults. Map (b) shows explosion craters, fumaroles and springs; relief in contours and shading. Map (b) is based on map listed under "Japan (c)" in *Bull.*, Vol. 43, 1911, pp. 797-798.]

PHILIPPINE ISLANDS. Geologic Reconnaissance Map of Mindanao. Geology by Warren D. Smith. [1:1,000,000]. 10°0' - 5°15' N.; 121°35' - 126°45' E. 4 colors. Should accompany (issued too late for insertion) "Geological Reconnaissance of Mindanao and Sulu: III General and Economic Geology" by W. D. Smith, *Philippine Journ. of Science*, Section A, Vol. 6, No. 5, 1911, pp. 359-395.

[Important map. Differentiates between (1) alluvial, (2) Tertiary sedimentary, (3) extrusive and (4) metamorphic rocks.]

TURKEY IN ASIA. [Three maps entitled:] Reisen in Kurdistan 1910. Nach den eigenen Photographien und Routenaufnahmen konstruiert und gezeichnet von Dr. Heinrich Freiherrn v. Handel-Mazzetti. 1:400,000. 2 colors.

I. Von Urfa über Kjachta nach Malatja und Is Oghlu mit Abstechern auf den Nemrud- und Ak-Dagh. [38°30' - 37°20' N.; 38°9' - 39°0' E.]

II. Von Arghana über Diarbekir, Mejafarkin und das Sassun nach Sert mit Besteigung des Meleto Dagh. 38°33' - 37°30' N.; 39°55' - 42°5' E. With inset: Der Meleto Dagh. 1:125,000. [38°23' N. and 41°33' E.]

III. Die Chaldäerhöfder zwischen Dschesiret-ibm-Omar und Simel. Nach Angaben von Guril Gorgis Homme aus Schios. 37°22' - 36°43' N.; 42°10' - 43°0' E.

With inset showing location of maps I-III: Übersicht der Reisewege der Mesopotamien-Expedition des Naturwissenschaftlichen Orientvereins in Wien 1910. 1:3,700,000. 39° - 32½° N.; 34½° - 45½° E. 3 colors.

Taf. 17, "Zur Geographie von Kurdistan" by H. Freiherrn v. Handel-Mazzetti, *Pet. Mitt.*, Vol. 58, II, Sept., 1912, pp. 133-137. [Valuable route surveys.]

TURKEY IN ASIA. Lower Mesopotamia. From the latest surveys of Sir William Willcocks, K.C.M.G. 1:3,000,000. 36°0' - 29°45' N.; 39°35' - 49°10' E. 1 color. With inset: [The Near East showing railroads finished and under construction. 1:18,000,000. 44° - 30° N.; 25° - 56° E. 1 color.]. Accompanies "The Garden of Eden and its Restoration" by W. Willcocks, *Geogr. Journ.*, Vol. 40, No. 2, 1912, pp. 129-148.

[Shows proposed works and systems of irrigation; also ancient towns and cities, canals and rivers.]

TURKEY IN ASIA. Sketch Map to Show Approximately Railways in Asiatic Turkey. 1:7,500,000. 43° - 28° N.; 24° - 54° E. 6 colors. (Geogr. Section of the Gen. Staff, London), 1911.

[Distinguishes by colors between different railroad systems and by symbols between different gages.]

TURKEY IN ASIA. The Troad. After Kiepert & Philippson with corrections by Walter Leaf. 1:600,000. 40°31' - 39°18' N.; 25°42' - 30°14' E. 3 colors. With inset: [Environs of Mt. Ida]. 1:300,000. 39°55' - 39°30' N.; 26°46' - 27°9' E. 3 colors. Accompanies "Notes on the Troad" by W. Leaf, *Geogr. Journ.*, Vol. 40, No. 1, 1912, pp. 25-45.

[Drainage in blue, relief in brown shading, ancient names in red.]

AUSTRALASIA AND OCEANIA

KAISER WILHELMS LAND. Reise von Finschhafen nach dem Markhamfluss (Kaiser-Wilhelms-Land). Nach dem Routentagebuch von Missionar G. Pilhofer konstruiert von C. Barich. 1:400,000. $5^{\circ}52' - 7^{\circ}4' S.$; $146^{\circ}15' - 148^{\circ}2' E.$ 3 colors. Taf. 22, "Eine Reise von Finschhafen nach dem Markhamfluss (Deutsch-Neuguinea)" by G. Pilhofer, *Pet. Mitt.*, Vol. 58, II, Sept., 1912, pp. 143-147.

[Important map embodying results of new exploration. Cf. also map listed under same entry, *Bull.*, Vol. 44, No. 1, 1912, p. 79, the limiting parallels of which, however, should there be corrected to read $5^{\circ}53' - 6^{\circ}46' S.$]

NEW ZEALAND. (a) Taupo Volcanic Zone. 1:1,250,000. $37^{\circ}30' - 39^{\circ}18' S.$; $175^{\circ}36' - 177^{\circ}12' E.$ With inset showing trend of Taupo volcanic zone.

(b) Topography of the Tarawera Volcanic Rift soon after the eruption of 1886. 1:80,000. [$38^{\circ}16' S.$ and $176^{\circ}30' E.$]

(c) Tuhua or Mayor Island, Bay of Plenty. Surveyed by E. C. Goldsmith, 1884. [$37^{\circ}20' S.$ and $176^{\circ}15' E.$]

Accompany, on pp. 11, 13 and 22, "Some New Zealand Volcanoes" by J. M. Bell, *Geogr. Journ.*, Vol. 40, No. 1, 1912, pp. 8-25.

EUROPE

BRITISH ISLES, ETC. (a) [Three maps of the British Isles, 1:7,500,000, showing the distribution of:] (1) Flat Celts; (2) Beakers; (3) Minerals.

(b) [Two maps of west-central Europe, 1:15,000,000 ($61^{\circ} - 47^{\circ} N.$; $11^{\circ} W. - 20^{\circ} E.$), entitled:] (1) The Principal Settlement Areas of the Beaker People in Britain and on the Continent; (2) The Distribution of Gold Lunulae of the Early Bronze Age.

(c) Map of the Fen District to Show that Flat Celts and Beakers are Most Frequent Where the "Shore-Line" is of Bare Chalk. 1:750,000. [$53^{\circ}10' - 51^{\circ}50' N.$; $0^{\circ}30' W. - 0^{\circ}45' E.$]

Accompany, as Figs. 2, 4, 9, 6, 8 and 5, "The Distribution of Early Bronze Age Settlements in Britain" (first part) by O. G. S. Crawford, *Geogr. Journ.*, Vol. 40, No. 2, 1912, pp. 184-203.

GERMANY. Tiefenkarte des Goplo-Sees (Preussischer Anteil). Aufgenommen von Dr. Hermann Schütze. 1:50,000. [$52^{\circ}43' - 52^{\circ}32' N.$; $18^{\circ}17' - 18^{\circ}25' E.$] 9 colors. Taf. 1, "Der Goplosee" by H. Schütze, *Pet. Mitt.*, Vol. 58, II, July, 1912, pp. 11-15.

[Similar in treatment to maps listed under "Germany (b)" (first entry), *Bull.*, Vol. 44, No. 8, 1912, p. 639.]

SCOTLAND. Map of the Glacieluvial Kame near Polmont. 1:25,000. [$56^{\circ} N.$ and $3^{\circ}43' W.$]. Accompanies, on p. 171, "The Relations of Kames and Eskers" by J. W. Gregory, *Geogr. Journ.*, Vol. 40, No. 2, 1912, pp. 169-175.

SPAIN. Estadística de Obras Publicas. 1^o de Enero de 1912. 1:1,000,000. $44^{\circ} - 35\frac{3}{4}^{\circ} N.$; $9\frac{3}{4}^{\circ} W. - 4\frac{3}{4}^{\circ} E.$ 3 colors. With inset: Islas Canarias. [1:1,000,000]. $29\frac{1}{2}^{\circ} - 27\frac{1}{2}^{\circ} N.$; $18\frac{1}{4}^{\circ} - 13\frac{1}{3}^{\circ} W.$ 2 colors. Dirección General de Obras Publicas, Madrid (1912).

[Large-scale map showing all wagon roads (divided into five classes), railroads (both standard and narrow gage), mine railways, tramways, canals, reservoirs and lighthouses (with their range) in Spain.]

WORLD AND LARGER PARTS

NORTHERN HEMISPHERE. [Isogonenkarte der Nordhemisphäre für die Epoche 1500]. [Mercator projection; equatorial scale 1:140,000,000]. $70^{\circ} N. - 0^{\circ}$; $110^{\circ} W. - 120^{\circ} E.$ Accompanies on p. 20 "Die erdmagnetische Deklination um das Jahr 1500" by H. Fritzsche, *Pet. Mitt.*, Vol. 58, II, July, 1912, pp. 20-21.

[Cf. similar map by Nansen listed under "Oceanographical" in *Bull.*, Vol. 44, No. 3, 1912, p. 240.]

NORTHWESTERN EUROPE AND GREENLAND. Das skandische Senkungsgebiet mit Randhebungscentren. Entworfen von Prof. Dr. Gerard De Geer. 1:8,000,000. 86° - 54° N.; 75° W. - 75° E. 8 colors. Taf. 16, "Kontinentale Niveauveränderungen im Norden Europas" by G. De Geer, *Pet. Mitt.*, Vol. 58, II, Sept., 1912, pp. 121-125.

[Illuminating map illustrating the relation of the depressed area of the "Scandinavian Sea" to the surrounding regions of uplift. By "Scandinavian Sea," for which the shorter term "The Scandic" is also suggested, is meant the basin enclosed between Greenland and Scandinavia on the N. W. and S. E. and between the Northeast Foreland-Spitzbergen ridge together with the western edge of the shelf of the Barents Sea, on the N. E., and the Iceland-Faroe ridge together with the northern edge of the shelf of the North Sea, on the S. W.]

Isobaths are shown with an interval of 500 meters. For Fenno-Scandia "co-hypsals" (i. e., the generalized contours of the Tertiary surface) having the same interval and isobasals (lines of equal uplift) are given. There are additional symbols showing Quaternary and Tertiary eruptives, centers of uplift, fiord topography and faults.]

PACIFIC OCEAN. Die Massnahmen der Rand-Grossstaaten des Grossen Ozeans zu seiner Beherrschung. [Mercator projection: equatorial scale 1:100,000,000] 80° N. - 60° S.; 105° E. - 60° W. 4 colors. With inset: Die Insel Palmyra als nord-amerikanische Kohlenstation. 1:75,000. [5° 52' N. and 160° 5' W.]. 2 colors. Taf. 15, "Die Insel Palmyra und der Panamakanal" by H. Wichmann, *Pet. Mitt.*, Vol. 58, II, Aug., 1912, pp. 118-120.

[The main map shows the comparative distances between Panama and Manila via Honolulu, Palmyra Island and Pago Pago, and the relationship of present and possible future British, American and Japanese coaling stations in the Pacific, in consequence of the reported annexation of Palmyra Island for the United States by Rear Admiral Southerland.]

CARTOGRAPHICAL

Neue geomorphologische Kartendarstellung einer Ideallandschaft. Entworfen von Dr. Hans Gehne. 7 colors. Taf. 13, "Eine neue Methode geomorphologischer Kartendarstellung" by H. Gehne, *Pet. Mitt.*, Vol. 58, II, Aug., 1912, pp. 72-73.

[Illustrates a new method of physiographic mapping similar to that recently suggested by Passarge in his "Physiologische Morphologie" (*Mitt. geogr. Gesell. Hamburg*, Vol. 26, 1912, pp. 133-337). Hachures of different colors, based upon the usual contours, are used to represent specific geological horizons or strata physiographically a unit. Areal colors are used to denote erosional forms, identity of color indicating equality of age.]

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INDEX TO VOL. XLIV

rev. Denotes Reviews; n. Short Notices and Comment on Maps;

*Bibliographical Entry.

Maps are indexed under their respective Countries.

A

- Aar: ¶Aaregebiet von den Quellen bis zum Bieler-See, 875*
- Abar Creek, Trip up the. C. W. E. Humphreys, 230*
- Abbate-Pacha, O., 870*
- Abbe, C., 126, 396*
- Abbott, W. J. L., 714*
- Abd-el-Kuri, Geologie der Inseln Sokotra, Sémha und. F. Kossmat, 312*
- Abel, C., 939*
- Abele, C. A., 788*
- Aberdeenshire. A. Mackie, 144*
- Abitibi, Au lac. Le premier missionnaire de la région de l'Abitibi. M. de Bellfeuille, 550*; Une Expédition dans l'-. I. Caron, 470*
- Abor Expedition, Results of, 773
- Abyssinia. See also Ethiopia: ¶Abyssinien. R. Hartmann, 943*; Beiträge zur Ethnographie und Anthropologie der Somäl, Galla, Harari. P. Paulitschke, 945*; Beiträge zur Landeskunde von Abessinien. C. Rathjens, 71*; Le chemin de fer français d'Éthiopie, 791*; Le Ghimirra. G. Montandon, 631*; Der Handel Abessinien, 71*; Journey in Southern. C. W. Gwynn, 71*; De Khartoum à Addis Abeba. J. Parmentier, 630*; Lungo Anseba e sull'altipiano abissino. Lungo le pendici dell'altipiano abissino e in Dancalia. G. Dainelli, n., 308; Mission en Éthiopie (1901-1903). Jean Duchesne-Fournet. H. Froidevaux, O. Collat, and Others, rev., 58; Narrative of the British Mission to Theodore, King of Abyssinia. H. R. ssam, 946*; The New Ethiopia. F. A. Edwards, 631*; Les possibilités économiques de l'Éthiopie. R. Ferry, 471*; Au Sidamo et chez les Gallas Aroussi. H. Latham, 791*; Traversée du massif éthiopien du Désert Somali à la Plaine du Soudan 1909-1911. G. Montandon, 791*; Valeur économique des régions traversées par le chemin de fer de Djibouti à Addis Abeba. E. de Felcourt, 931*
- Achin: ¶Acheen and the Ports on the North and East Coasts of Sumatra. J. Anderson, 939*
- Acker, P., 630*
- Adamawa: ¶Geschichte Adamauas nach mündlichen Überlieferungen. K. Strümpell, 312*
- Adamello-Presanella, Sui ghiacciai dell'. L. Marson, 395*
- Adamović, L., 926*
- Adams, C. C., 194, 229*
- Adams, C. F., 550*
- Adams, G. I. and Pratt, W. E., 554*
- Addis Abeba, De Khartoum à. J. Parmentier, 630*
- Adelaide, S. Australia: ¶Sixty-First Annual Report of the—Chamber of Commerce, 474*
- Adriatic Sea: ¶Die Adria. A. Merz, 554*; Bericht über die zweite Kreuzungsfahrt *Najade* in der Hochsee der Adria, 1911, 233*; Die meereskundliche Literatur über die Adria mit besonderer Berücksichtigung der Jahre 1897-1909. A. Merz, 554*
- Aeolian Geology: See under Geology.
- Aeronautics: ¶Airship in Exploration. H. Hergesell, 125; Aeronautische Meteorologie. F. Linke, n., 224; Carte et repères aéronautiques. C. Lallemand, 876*; Charts of the Atmosphere for Aeronauts and Aviators. A. L. Rotch and A. H. Palmer, rev., 861; Compte-Rendu du Congrès tenu à Monaco . . . Commission scientifique internat. d'aérostation. E. Massány, 315*; Highest Flight on Record, 774; International Air Map and Aeronautical Marks. C. Lallemand, 315*; Internationale Luftschifferkarte. K. Peucker, 395*; Landschiffahrt und Landkarte. Ein Umblick in der Frage der Luftschifferkarte. K. Peucker,

- 876*; Luftfahrten zu wissenschaftlichen Zwecken. H. Hergesell, 716*; Verfahren zur Herstellung farbenplastischer Darstellung, insbesondere Karten (Flugkarten). K. Peucker, 395* ¶ Map: Index Diagram showing for France the Sheet lines of the Air Map, 80*
- Afghanistan: ¶ Among the Wild Tribes of the Afghan frontier. T. L. Pennell, 945*; The Buffer State. Great Britain and Russia in Central Asia. G. Lyons, *rev.*, 215; The Kingdom of. Historical Sketch. G. P. Tate, *rev.*, 215 ¶ Maps: Afghanistan, Map, *n.*, 478; Perse, Afghanistan et régions limitrophes, *n.*, 238
- Africa: ¶ Africa of To-Day. J. K. Goodrich, 779; L'Afrique Noire. O. Meynier, *n.*, 466; Aufteilung Afrikas. F. Hänsch, 870*; Catalogue of Fresh-Water Fishes of—in the British Museum. A. Boulenger, 71*; Les chemins de fer trans-africains. A. J. Wauters, 631*; Un chemin der fer trans-africain. E. de Renty, 791*; Climate of the Continent of. A. Knox, *rev.*, 300; Description de l'Afrique par un géographe arabe anonyme du sixième siècle de l'Hégire. A. de Kremer, 944*; Der gegenwärtige Stand der Heiden-Missionen, 870*; L'industrie du sel en Afrique, 392*; Islam und die Kolonisierung Afrikas. P. Acker, 630*; Isotherms for. J. I. Craig, 71*; Kolloquium über afrikanischen Sprachen am Seminar für orientalische Sprachen zu Berlin. B. Struck, 874*; Les marchés en Afrique d'après la loi et la coutume indigènes. J. Plas, 71*; Naaukeurige Beschrijvinge der Afrikaensche Gewesten. O. Dapper, 942*; Opening Up of Africa. H. H. Johnston, *n.*, 466; Die Pflanzenwelt Afrikas insbesondere seiner tropischen Gebiete. Vol. 1. A. Engler, *rev.*, 920; La politique des chemins de fer africains, 148*; Problems in Exploration. F. R. Cana, 312*; Project de chemin de fer transafricain. R. Doucet, 791*; Un-occupied Mission Fields of—and Asia. S. M. Zwemer, *n.*, 390; Verbreitung und Häufigkeit des Elefanten und Löwen in Afrika. M. C. Engell, 71*; Verkehrsfrage auf den innerafrikanischen Seen. P. Rohrbach, 148* ¶ Maps of Africa: Nigritia. E. Banse, *n.*, 240; Progress of Exploration, *n.*, 78; Rain-fall maps of, *n.*, 317; Verbreitung und Häufigkeit des Elefanten. M. C. Engell, *n.*, 476; Verbreitung und Häufigkeit des Löwen. M. C. Engell, *n.*, 476
- Central Africa: ¶ Die Bantu-Neger. M. Büchner, 931*; Herzog Adolf Friedrich zu Mecklenburg über seine "Inner-Afrika Expedition, 1910/11," 631*; Les Négrilles du Centre Africain. L. Poutrin, 931*
- Central Africa Protectorate: See Nyasaland
- East Africa: La Costa orientale dell'Africa (Phases of Development along the east coast). P. Pasi, 312*; H. Meyer's Expedition, 121; Ost-Afrika im Aufstieg. P. Müllendorff, *rev.*, 682
- North Africa: ¶ Zur Anthropologie der nordafrikanischen Juden. S. Weissenberg, 791*; Ein Ausflug nach dem französischen Nordafrika. M. M. v. Weber, 948*; Changes of Climate within Historic Times in. H. Leiter, 772; Esquisse d'une histoire de la Conquête et de l'administration romaines dans le nord de l'Afrique. G. Boissière, 940*; European Reconquest of. A. C. Coolidge, 791*; Géographie comparée de la Province Romaine d'Afrique. C. Tissot, 947*; Der Hellenismus in Kleinafrika. Der Griechische Kultureinfluss in den Römischen Provinzen Nordwestafrikas. W. Thieling, 947*; Oberflächetemperatur des nordwest-afrikanischen Auftriebsgebietes, 312*; Zwei Wanderungen durch das nördliche Afrika. C. Laverrenz, 944* ¶ Maps of North Africa: ¶ Four maps of northeastern Africa showing normal Rainfall in June, July, August and September, *n.*, 78; 8 maps:—Oberflächen Temperatur an der Nordwest-afrikanischen Küste, 160*
- South Africa: ¶ Die Bantu-Neger. M. Büchner, 931*; Berichte über meine Reise nach Südafrika. 1907-09. R. Pösch, 931*; Du Cap au Lac Nyass. E. Foà, 942*; Die Eingeborenen Südafrikas. G. Fritsch, 942*; Geographical Factors in Development of. W. M. Davis, 71*; History and Ethnography South of the Zambesi, 1505-1795. G. G. McCall Theal, *rev.*, 696; Über die Kunst der Buschmänner. R. Pösch, 931*; Monkeyfolk of. F. W. Fitzsimons, *n.*, 143; Die Pfannenförmigen Hohlformen der südafrikanischen Steppen. S. Passarge, 148*; Physical Geography in South African Schools. A. L. du Toit, *n.*, 626; Reisen im In-

nern Südafrikas zum Studium der Buschmänner, 1907 bis 1909. R. Pöch, 931*; The Stone Ages of South Africa as represented in the Collection of South African Museum. L. Péringuey, 148*; Südafrika. G. Fritsch, 942*; Südafrikanische Werkzeuge aus verschiedenen Perioden. R. Pöch, 931*

West Africa: ¶Islam as a Factor in West African Culture. G. W. Ellis, 71*; Niger and the West Sudan, or West African's Note Book. A. J. N. Tremearne, *rev.*, 858; Pioneers in. Sir Harry Johnston, *n.*, 466; Protection de la faune sauvage en Afrique Occidentale. J. Meniaud, 312*; Der Weltteil Afrika (Afrikas Westküste). J. Falkenstein, 942*; The Travels of R. & J. Lander into the Interior of Africa for the Discovery and Termination of the Niger. From Unpublished Documents, etc. R. Huish 944*

British East Africa: ¶Annual Report for year ending March 31, 1912. G. S. Knox, 792*; Africa Protectorate. A. Davis, 1;—and German East Africa. Their economic and commercial Relations. H. Brode, *rev.*, 132; Le climat du Kikouyou et la culture du caféier. J. Soul, 631*; Country between Juba R. and Lake Rudolf. L. Aylmer, 71*; Distribution of Plants in. E. Battiscombe, 71*; Elephant Hunting in Equatorial Africa. C. E. Akeley, 392*; Ethnology of A-Kamba and other East African Tribes. C. W. Hobley, *rev.*, 300; Fish Culture in—. D. E. Hutchins, 792*; John Boyes, King of the Wa-Kikuyu. By Himself, *n.*, 708; Lindequistische Bericht über Britisch- und Deutsch-Ostafrika als Siedlungsgebiet für Europäer. Gallus, 791*; Man and Beast in Eastern Ethiopia. From Observations made in British East Africa, etc. J. Bland-Sutton, *n.*, 535; Man-Eaters of Tsavo and other East African Adventures. J. H. Patterson, *n.*, 866; Nairobi, 932*; Notes on the Customs and Beliefs of Wa-Giriama, etc. W. E. H. Barrett, 932*; Plateau of British East Africa and its Inhabitants. G. L. Collie, 321, 687, 791*; Sagen, Mythen und Sitten der Masai. H. Fuchs, 942*; Den svenska zoologiska expeditionen till Ostafrika. E. Lönnberg, 312*; Karianduss Deposits of the Rift Valley. C. W. Hobley, 71*; Notes on the Haunts and Habits of the Elephant on Guas Ngishu Pla-

teau. A. C. Hoey, 71*; The Suk: Their Language and Folklore. M. W. H. Beech, *rev.*, 299; ¶Maps of British East Africa: Mombasa-Victoria Railway, *n.*, 156; Suk Country, *n.*, 78

British South Africa: See Union of South Africa.

French Colonies in Africa: Afrique du Nord et Politique Coloniale. L. Say, 946*

French Equatorial Africa: ¶L'accroissement de la Mortalité et la Diminution de la Natalité chez les indigènes du Congo Français. E. Vidal, 392*; Afrique Équatoriale Française, 871*; Les chemins de fer du Gabon et du Congo français, 792*; Déclinaisons observées en Afrique équatoriale française et essai de carte des isogones au 1^{er} Jan., 1908. G. Bruel, 932*; Das deutsch-französische Kamerun-Kongo-Abkommen vom 4. Nov. 1911. H. Wichmann, 631*; Franco-German Territorial Arrangement, 631*; Négociations Franco-Allemandes relatives au Congo, 552*; A propos de l'accord franco-allemand. E. Hulot, 630*; Französisch-Aequatorial-Afrika im Jahre 1911, 631*; Mission hydrographique Congo-Oubangui-Sanga. H. Roussilhe, 631*; Ce qu'il faut faire dans le nord du Gabon. G. Nzamba, 392*; Ce qu'il faut faire sur le littoral du Gabon. G. Nzamba, 631*; Mon Voyage au Continent Noir. E. Trivier, 947*; Le project de chemin de fer franco-allemand du Kamerun à l'Ubangi, 631*; La région du Bahr-Sara. Maistre, 944*; Réveil de l'Afrique équatoriale française. M. Merlin, 312*; Le transcongolais et le transsaharien d'Alger à l'embouchure du Congo, 871* ¶Maps of French Equatorial Afrika: L'Afrique Equatoriale d'après l'accord Franco-Allemand, *n.*, 157; La "Coupure" projetée en Sept. 1911, *n.*, 157; Franco-German Agreement, *n.*, 157; Four Maps accompanying "Accord franco-allemand du 4 Nov., 1911 relatif au Congo," *n.*, 157; Sketch Map showing Cessions of Territory in—provided for by Franco-German Treaty of Nov., 1911, 157*; Kamerun-Kongo-Abkommen zwischen dem Deutschen Reich und Frankreich vom 4. Nov., 1911, *n.*, 156

French West Africa: ¶L'Afrique Occidentale Française en 1910. Gov.-

Gen. Ponty, 149*; Le Fouladou. R. Legrand, 931*; La frontière Franco-Libérienne. L. Peyrissac, 630*; Le marché du caoutchouc en 1911 et les caoutchoucs de l'Afrique Occidentale française. F. Faucher, 871*; Progrès de. L. Sonolet, 312*; Les Sociétés de prévoyance dans, 71*; Nouveau Voyage dans le Pays des Nègres. A. Raffanel, 946*; Proposed railway Extension and Port Improvements in, 71* ¶ Maps of French West Africa: Carte des chemins de fer de l'Afrique Occidentale Française, 157*; Itinéraire du voyageur, n., 157

German Colonies in Africa: ¶ Der Handel der Schutzgebiete in Afrik, 631*

German East Africa: ¶ Afrique orientale. C. Martin, 932*; Arbeiterfrage in Deutsch-Ostafrika. O. Stollowsky, 231*; Aussichten für Viehzucht im Muansa-Bezirk, 792*; Über den Bau der Erdkruste in Deutsch-Ostafrika. E. Kohlschütter, 472*; British and German—, Their Economic and Commercial Relations. H. Brode, *rev.*, 132; Le chemins de fer de l'Afrique Orientale Allemande, 871*; Costruzioni ferroviarie nell'Africa Orientale Tedesca. A. Corsi, 149*; Deutsch-Ostafrika. J. Wagner, 948*; Entstehungsgeschichte des unteren Rufiji. J. Pfeil, 932*; Geographische Forschungen im abflusslosen Gebiet vom. F. Jaeger, 932*; German East Africa Central R. R. Completed to Tabora, 452; Der Handel Deutsch-Ostafrikas 1910, 72*; Untere Kreide von. E. Krenkel, n., 866; Landschaften Issansu und Iramba. E. Obst, 632*; Landwirtschaftlichen Verhältnisse des Bezirks Moschi. Mickel, 72*; Lindequistsche Bericht über Britisch- und Deutsch-Ostafrika als Siedlungsgebiet für Europäer. Gallus, 791*; Von Mkalama ins Land der Wakindiga. E. Obst, 632*; Neu-Langenburg und das Deutsche Nyassa-Seegebiet, 871*; Aus neuen Wegen durch Ruanda und Urundi. H. Meyer, 632*; Ost-Afrika im Aufstieg. P. Müllendorff, *rev.*, 682; Question des chemins de fer dans l'Est Africain allemand, 149*; Régions voisines de la frontière orientale du Congo Belge du Tanganyka au Lac Albert. M. J. Maury, 870*; Reiseberichte von Prof. Dr. H. Meyer aus, 792*; Sagen, Mythen und Sitten der Masai. H. Fuchs, 942*; Tabora.

Zum Fortbau der ostafrikanischen Zentralbahn zum Tanganjikasee. E. Zimmermann, 472*; Wichtigkeit der Bewässerung in Deutsch-Südwestafrika und Deutsch-Ostafrika. Schmick, 630*; Der Weiterbau der ostafrikanischen Zentralbahn zum Tanganjikasee, 472*; Zusammenstellung der Monats- und Jahresmittel aus dem Jahre 1909 an 48 Beobachtungsstationen. P. Heidke, 231* ¶ Maps of German East Africa: Ethnographische Übersichtskarte des Nil-Kongo-Zwischengebietes. J. Czekanowski, n., 238; Frontière Germano-Belge dans l'Afrique Occidentale, n., 317; Die neue deutsch-belgische Grenze im Kiwu-Gebiet, 78*

German Southwest Africa: ¶ Aus Deutsch-Südwestafrika. Ingenieur v. Zwergern, 231*; Notes on geological formation of portions of. W. Versfeld, 72*; Owatschimba im nördlichen Kaokofeld. J. Kuntz, 933*; Sud-Ouest. C. Martin, 933*; Topography and Geology of the German South Kalahari. P. Range, 792*; Wichtigkeit der Bewässerung in Deutsch-Südwestafrika und Deutsch-Ostafrika. Schmick, 630*; Zur wirtschaftlichen Erschließung von. H. Wolf, 72*

German West Africa: See Kamerun and Togo.

Italian Colonies in Africa, Map: ¶ Mar Rosso e Possedimenti Italiani in Africa, n., 719

Portuguese East Africa: ¶ Portuguese Nyasaland. W. B. Worsfold, 948*

Portuguese West Africa: ¶ Chemin de fer portugais de Lobito vers le Katinga, 870*

Union of South Africa (British South Africa). See also Natal, Transvaal, etc.: ¶ Annual Report, Mines Dept. of, 1912, 933*; Some Aspects of Geological Work in South Africa. E. T. Mellor, 793*; Diamond Rush to Mooifontein. W. Blane, 711*; Dairying in South Africa. J. D. T. Wiese and R. Ronaldson, 472*; Fifteenth Annual Report of Geological Commission, 1910, 632*; Fruit Exports, 369; Maize Industry. J. Burr-Davy, 632*; Science teaching in. Address by P. D. Hahn at the Meeting of S. A. Assoc. for Adv. of Sc., 149*; Südafrika. E. v. Drygalski, 149*; Wool Industry of, 472*

Agassiz, Alexander, 1835-1910. A. G. Mayer, 397*

- Agnew, Andrew G., *Obituary*, 918
- Agraz, J. S., 70*
- Agriculture: ¶ Some Geographic Relations illustrated in the Practice of Agriculture. R. E. Dodge, 277; Principles of Rural Economics. T. N. Carver, *rev.*, 621
- Aiken, J., 230*
- Air: See Atmosphere.
- Ajmere-Merwara: ¶ Sketch of Mairwara. C. J. Dixon, 942*
- A-Kamba and Other East African Tribes, Ethnology of. C. W. Hobley, *rev.*, 300
- Akeley, C. E. 392*
- Akerblom, F., 714*
- Alabama: ¶ Agriculture. Census 1910, 311*; Fayette Gas Field. M. J. Munn, 869*; Petroleum and Natural Gas. M. J. Munn, 868*; Population, Census 1910, 229*, 929*; Statistics of Mineral Production, 1910. C. A. Abele, 788* ¶ Maps of Alabama: Birmingham Quad, Areal Geology, Economic Geology Structure Sections, 153*; Map of Fayette District, 557*; Map of faulted areas in the vicinity of Pratt City and Thomas, 154*; Sketch Map of northwestern Alabama showing location . . . Fayette Gas Field, general structure, etc., 557*
- Alaska: ¶ Alaska-Canada Boundary, 769; Annual Report . . . Game Law for 1911. W. E. Clark, 627*; Birds and Mammals of the 1909 Alexander Expedition. H. S. Swarth, *n.*, 624; Conditions among the Natives. G. J. Emmons, 549*; Some Details of Mr. Stefánsson's Geographical Work in, 660; Fur Seal Fisheries of—in 1910, 550*; Geologic Reconnaissance of the Iliamna Region. G. C. Martin and F. J. Katz, 868*; Mountain Climbing in. First Expedition to Mount Blackburn. D. Keen, 868*; Population, Census 1910, 229*; Progress of Topographic Surveys (U. S. Geol. Surv.). R. H. Sargent, 481; Rampart and Hot Springs Regions. H. M. Eakin, 788*; Statistics of Manufactures, Census 1910, 929*; Report of the Eruption of Katmai Volcano. I. M. Dailey, 641; Resources of. F. L. Hess, 927*; Surveying the 141st Meridian. T. Riggs, Jr., 788* ¶ Glaciers: Glaciers and Glaciation of. R. S. Tarr, 549*; Tarr and L. Martin in, 46; Glaciation of the Alaska Range. S. R. Capps, 788*; Glaciers East of Wrangell Mt., 365 ¶ Minerals and Mining: Alaska Mining Industry in 1911 and Railway Routes in Alaska. A. H. Brooks, 927*; Coal Problems. W. L. Fisher, 549*; Geography in Development of Alaska Coal Deposits. A. H. Brooks, 549*; Geology and Coal Fields of the Lower Matanuska Valley. G. C. Martin and F. J. Katz, 549*; Geology and Mineral Resources of Parts of. W. W. Atwood, 310*; Geology and Mineral Resources of Nizina District. F. H. Moffit and S. R. Capps, 311*; Gold Deposits of the Seward-Sunrise Region. B. L. Johnson, 927*; — near Valdez. A. H. Brooks, 927*; Gold Placers of the Yentna District. S. R. Capps, 788*; Headwater Regions of Gulkana and Susitna Rivers. With accounts of Valdez Creek and Chistochina Placer District. F. H. Moffit, 928*; Mining and Water Supply of Forty-mile, Seventy-mile, Circle, and Fairbanks Districts, 1911. E. A. Porter & C. E. Ellsworth, 788*; Notes on Mining in Seward Peninsula. P. S. Smith, 788*; The Ruby Placer District. A. G. Madren, 788*; Sitka Mining District. A. Knopf, 229* ¶ Maps of Alaska: Copper Mountain and Vicinity, 74*; Gletscher des unteren Kupferflusses. L. Martin, 935*; Maps of Hugh Miller Inlet, Head of Reid Inlet, N. part of Muir Inlet, 316*; Tiefenkarte von Port Wells. L. Martin, 935*; Topography of Kasaan Peninsula, 397*; Geologic Map of Alaska Pen. *n.*, 154; Cape Douglas and Vicinity. R. W. Stone, 154*; Chignik Bay, Herendeen Bay and Unga Island Region. W. W. Atwood, 154*; — H. M. Eakin, 154*; Outline Map of Southwestern, *n.*, 154; Portion of Prospect Bay showing the form of harbor and location of copper prospects, 154*; Shore features near the head of Balboa Bay, 154*; Shore features near north and south entrance to Baraflo Harbor, 154*; Charts: Bays and Anchorages, South Coast of, 636*; Northern Part of Cook Inlet, 636*; Harbors on South East Coasts, 236*
- Alatna-Noatak Region, Alaska. P. S. Smith, 788*
- Albania: ¶ Albanien, Eine militärgeographische Studie. O. v. Kreutzbruck, 714*; Albanien und die Albanesen. P. Siebertz, *rev.*, 62
- Alberta: ¶ Account of Its Wealth and Growth. L. Thwaites, *rev.*, 693; Big-horn Coal Basin. G. S. Malloch, 311*; Chinook in southern—and Temperature Inversions at Sulphur Mountain,

- Banff. R. F. Stupart, 230*; Railroads in, 286; Report of the Commission to investigate Turtle Mt., Frank, 550*; Studying Big Game in, 609 ¶ Maps of Alberta: Cereal Map of — showing acreage under crop in each township in wheat, barley and flax, *n.*, 716; Maligne Lake, Jasper Park, *n.*, 558; Maps of Northern and Southern Alberta, showing disposition of Lands, 797*
- Aldrey, J. G., 392*
- Aleutian Islands: ¶ Dr. Jochelson's Work in the, 521; Notes on Birds... during a brief visit to the—and Bering Sea in 1911. A. C. Bent, 627*
- Alexander the Great, Book of: The Sikandar Nāma, e Barā. By Abū Muhammad bin Yusuf bin Mu, Ayyid-i-Nizāmu-'d-Din. Translated by H. W. Clarke, 941*
- Alexandrian Library: ¶ Observations sur le sort de la Bibliothèque d'Alexandrie en réponse à Sa Béatitude Kyrillos Macaire. M. Bey, 396*
- Algeria: ¶ About Algeria, Algiers, Tlemcen, Constantine, Biskra, Timgad. C. Thomas-Stanford, *rev.*, 535; L'Afrique du Nord et Politique Coloniale. L. Say, 946*; Application du "dry farming" à l'Algérie. V. Demontès, 312*; Colonisation française dans l'Afrique du Nord. Algérie-Tunisie-Maroc. V. Piquet, *rev.*, 533; Campagne d'Afrique, Algérie-Tunisie-Maroc. V. Piquet, 946*; Les confins Algéro-marocains. A. Montell, 552*; Documents relatifs à la mission dirigée au sud de l'Algérie. M. A. Choisy, 941*; Die Eingeborenen Algeriens, 552*; De l'établissement des Français dans la Régence d'Alger. M. Genty de Bussy, 943*; Frontière algéro-marocaine: L'Amalat d'Oudjda. Commandant de Choulot, 472*; Mœurs, Coutumes et Institutions des Indigènes. Lieut.-Gen. Villot, 948*; Les Monts Berbères. Kabylie et Aurès. Les Tribus et les paysages. M. Boissard, 871*; Narrative of a Campaign against the Kabails of. D. Borrer, 940*; Notes sur la culture du coton en Algérie. E. Layer, 871*; Note concernant les Aoulad-Daoud du Mont Aurès. E. Masqueray, 944*; Oran et Algérie en 1887, 940*; Les ports de l'Afrique française du Nord. E. Gallois, 871*; Questions algériennes (Agriculture and commerce). G. de Contenson, 472*; Population. Census 1911, 530; Quelques étapes en — et au Maroc. Général Bernard, 471*; Voyages dans le Sud de. A. Berbrugger, 940*
- Allardyce, W. L., 148*
- Allen, C. F., 939*
- Allen, E. T., 142*
- Allen, G., 787*
- Allen, R. C., 76*, 77*; — and W. N. Smith, 77*
- Allen, W. N., 715*
- Allingham, W., 926
- Allix, A., 872*
- Almagià, R., 454, 874*
- Almeida, W. B. d', 939*
- Alonso, C. G., 396*
- Alps: ¶ Die Alpen. H. Reishauer, *n.*, 867; Les Alpes de Provence. Guide du Touriste, du Naturaliste et de l'Archéologue. G. Tardieu, *n.*, 867; Les Alpes de Savoie. Les massifs entre l'Arc et l'Isère. Guide pour l'Alpiniste. E. Gaillard, 926*; Alpine Plants of Europe together with cultural hints. H. S. Thompson, *n.*, 143; Alpinist und Alpenflora. C. C. Hosseus, 633*; Architecture and Origin of the. J. Geikie, 73*; Bericht über das Erdbeben in den Alpen vom 13. Juli 1910. J. Schorn, 875*; Die bewohnten und unbewohnten Areale der Ost-Alpen. N. Krebs, 794*; Entwicklung der Pflanzengeographie der Ostalpen in den letzten zehn Jahren. J. Stadlmann, 794*; Die Formen alpinen Hochtäler, insbesondere im Hohen Tauerngebiet, und ihre Beziehungen zur Eiszeit. L. Distel, 873*; Grundsätze und wahrhafte Beschreibung der uralten Alpinen Rhätie [Grisons and Tirol.] Tschudi, (1560), 947*; Über die Kalkalpen zwischen dem Almtal und dem Traungebiet. G. Geyer, 73*; Klubhütten-Album des Schweizer Alpen-Club, *n.*, 145; Über die Lavinien der Alpen. F. Frech, 554*; Report on an Investigation of the Geological Structure of the Alps. B. Willis, 394*; Richard Lepsius über die Einheit und die Ursachen der diluvialen Eiszeit in den Alpen. A. Penck, 633*; Service des grandes forces hydrauliques dans la région des Alpes, 633*; Verteilung der Kulturen und die Volksdichte in den österreichischen Alpen. N. Krebs, 794*; Waldgrenzstudien in den österreichischen Alpen. R. Marek, 73*
- Alpes, Hautes: See Hautes-Alpes.
- Alsace-Lorraine: ¶ Deutsche Grenzmark Elsass-Lothringen. H. T. Luks, 944*

- Altermann, R., 709*
 Altitude Tables. F. Ball, *n.*, 145
 Alzonze, C., 555*
 Amaral, B. do, 931*
 Amavet, E., 72*
 Amazon Basin: ¶ In the Amazon Jun-
 gle. A. Lange, *n.*, 466; Développement
 économique de l'Amazonie. V. Cayla,
 790*; Les langues guaraníes du Haut-
 Amazone. P. Rivet, 311*
 Amazon R., Maps: Sections from Maps
 showing the mouth of the Amazon:
 Egerton Map, Juan de la Cosa Map,
 Diego Ribeiro, (1529), 80*
 America. ¶ The Americas: ¶ Beitr-
 äge zur Charakteristik der älteren
 Geschichtsschreiber über Spanisch-
 Amerika. E. Weber, *rev.*, 533; Cen-
 tenario do Descobrimento da America,
 941*; Distribution and Origin of Life
 in America. R. F. Scharff, *rev.*, 707;
 The Egerton Map of Early American
 Discoveries. O. A. Derby, 315*;
 Forestry in the American Tropics. J.
 Gifford, 74*; Geography Notes on
 Non-British America. J. C. Chute,
 226*; Gesammelte Abhandlungen zur
 Amerikanischen Sprach- und Alter-
 thumskunde. E. Seler, 947*; The
 History of the American Race. F.
 Boas, 788*; Influence of the Presence,
 Discovery and Distribution of the
 Precious Metals in America on Mi-
 gration of People. G. D. Hubbard,
 97; Kindlier Light on Early Spanish
 Rule in America. E. H. Thompson,
 628*; Pan American Union. J. Bar-
 rett, *n.*, 211; The problem of Unity or
 Plurality and the Probable Place of
 Origin of American Aborigines. J.
 W. Fewkes and A. Hrdlička, 710*;
 Systematic Geography of America,
 G. W. Webb, *rev.*, 63
 Central America: ¶ Agricultural,
 Industrial, and Commercial Develop-
 ment of—Imports and Exports of Each
 State. J. J. Macfarlane, 470*; —and
 West Indies. A. H. Keane, *n.*, 389;
 Les cinq républiques de l'Amérique
 Centrale. M. de Périgny, *n.*, 142; Er-
 gebnisse einer Forschungsreise in Mit-
 telamerika und México 1907-9. W.
 Lehmann, 551*; Über den Kulturwert
 der verschiedenen Landschaftstypen
 in den Tropen, insbesondere in Mit-
 telamerika. K. Sapper, 789*, 870*;
 Mission dans l'Amérique Centrale
 1909-1910. M. de Périgny, *n.*, 466
 ¶ Map: Mapa de America Central,
n., 797
 North America: ¶ Bibliography of
 N. A. Geology for 1910. J. M. Nickles,
 391*; Climatic Limits of Wheat Cultiva-
 tion, with Special Reference to. J.
 F. Unstead, 627*; The Birds of North
 and Middle America. R. Ridgway,
 549*; Fixité de la côte Atlantique de
 l'Amérique du Nord. D. W. John-
 son, 868*; Forester's Manual of For-
 est Trees of Eastern North America.
 E. T. Seton, *n.*, 547; Geologic Map of.
rev., 40; Ice age in—and its Bearings
 upon the Antiquity of Man. G. F.
 Wright, *rev.*, 129; Immigrant Races
 in North America. P. Roberts, 306*;
 Norsemen in America. F. Nansen,
 391*; North American Deserts. D.
 T. MacDougal, 391*; Occurrence of
 Coral Reefs in the Triassic of—. J.
 P. Smith, 391*; Some Physical and
 Biological Features of North Ameri-
 can Deserts. D. T. MacDougal, 868*
 ¶ Maps of North America: America.
 Greater California. E. Banse, *n.*,
 240; Countries and Seas discovered
 by Norwegians and Icelanders, 160*;
 Geologic Map of — compiled by U.
 S. G. S., Geol. Survey of Canada and
 Inst. Geol. de Mexico, 155*; *n.*, 40;
 Map of North America, *n.*, 796; North
 America, *n.*, 399; Sketch Map to illus-
 trate a paper on N. American Deserts.
 F. Shreve, *n.*, 475; Stamford's Library
 Map of, *n.*, 797
 South America. ¶ Abnormal
 Weather in—during 1911. R. C.
 Mossman, 551*; Andean Land. C. S.
 Osborn, *n.*, 57; Description of South
 American Locust, 471*; Entwicklung
 der Fabrikindustrie in lateinischen
 Amerika. Von Gemmingen, *n.*, 307;
 Some Factors of Geographical Dis-
 tribution in. J. D. Haseman, 790*;
 [Following the Conquistadores] Along
 the Andes and Down the Amazon.
 H. J. Mozans, *rev.*, 297; Land of the
 Southern Cross. C. W. Currier, *rev.*,
 132; Meine Reise durch Süd-Amerika
 im Jahre 1910. E. Seler, 930*; Mis-
 sion du Service Géographique de l'-
 Armée pour la mesure d'un Arc du
 Méridien Équatorial, 1899-1906, Tome
 3, Fasc. 2: Compensation des Angles-
 Calcul des triangles, Tome 9, Fasc. 2:
 —Zoologie, 930*; Notes de Voyage
 dans l'Amérique du Sud. Argentine-
 Uruguay-Bésil. G. Clemenceau,
 625*; Observations and Impressions.
 J. Bryce, *rev.*, 919; Primitive man in,
 687; South America To-Day. G.

- Clemenceau, *rev.*, 455; South American Problems. R. E. Speer, *rev.*, 694; Trade. C. M. Pepper, *n.*, 57; The Ten Republics. R. P. Porter, *n.*, 143; Wirtschaftsgeographisches aus Südamerika. A. Beyer, 471* ¶ Maps of South America: Amazonia. Andina. E. Banse, *n.*, 240; Map accompanying "Along the Andes and Down the Amazon, 317*"; Map for Robertson's History of South America. T. Kitchen. 1777, (Facsimile), 160*
- American Association for the Advancement of Science. J. Zeleny, 475*
- American Geographers: See Association of.
- American Geographical Society: ¶ Annual Meeting of the, 116; Attendance at Lectures, 448; Award of Cullum Medal to Dr. Charcot, 118; Daly Medal to Amundsen, 364, 914; Bulletin Index, 915; Charter of Incorporation, vii, Amended Charter, ix, By-Laws of the, xii, Officers and Councilors, 1911, v; Correspondence, 126, 432; Election of E. S. Balch a Councillor, 915; The Library, 518; Society's Geographical Collection, 518; Special Meeting, 914; Society's Exhibition of Photographs, 448, 684, 915; Transactions, 44, 116, 203, 285, 364, 914; Transcontinental Excursion, 201, 664, 426, 848; Works purchased for the Society in 1912, 939
- American Philosophical Society, General Index to the Proceedings of—held at Philadelphia for Promoting Useful Knowledge, 629*
- Americanists, Eighteenth International Congress of, 124, 772
- Amerind: See Indian, American.
- Ampferer, O., 876*; — and W. Hammer, 713*
- Amundsen, R., 903; Personal, 203, 364, 448, 529, 612, 914; ¶ Amundsen's Antarctic Explorations. R. N. R. Brown, 555*; — Expedition to the South Pole, 822; — och Scotts färder til sydpolen. O. Nordenskjöld, 876*; — am Südpol. H. Singer, 714*
- Amurath to Amurath. (Asiatic Turkey). G. L. Bell, *rev.*, 134
- Anatolia: See Asia Minor.
- Andaman Islands, Geology of—with Reference to the Nicobars. G. H. Tipper, 150*
- Andavakoera, Les mines d'or de la région d'. A. Bordeaux, 72*; Map, 78*
- Anderson, D., 788*
- Anderson, J., 939*
- Anderson, R., 310*
- Anderson's (R. M.) Return from the Arctic, 917
- Anderson, T., 314*, 396*
- Andes, Fuel Resources of the Central, 287
- Andrade, V. de P., 392*
- Andree, Dr. Richard, *Obituary*, 294
- Andrew, W. P., 939*
- Andrews, E. C., 234*, 554*
- Andrews, J., 940*
- Anfossi, G., 474*
- Angier, A. G., 940*
- Angola: ¶ Chemin de fer portugais de Lobito vers le Katanga, 870*; Lobito Railroad, 609 ¶ Maps of Angola: Esboço da Carta de Angola, *n.*, 637
- Anhalt, Sachsen und Brandenburg, Salzflora und Tektonik in. O. v. Linstow, 151*
- Ani, Skizze der Ruinenstadt, (Map), 400*
- Animals: ¶ Animals and the Man. Elementary Textbook of Zoology and Human Physiology. V. L. Kellogg *n.*, 145; Beasts and Men. C. Hagenbeck's Experiences Among Wild Animals, *n.*, 226; Heredity in Relation to Evolution and Animal Breeding. W. E. Castle, 390*; Primitive Animals. G. Smith, 309*
- Animal Worship: ¶ Animal Sanctuaries in Labrador. W. Wood, 550*
- Annam: ¶ La cité annamite. Les sédentaires. C. Briffaut, *n.*, 866; On and Off Duty in. G. M. Vassal, *rev.*, 859
- Annapolis Harbor, Chart, 236*
- Annoni, A. M., 792*
- Anseba, Lungo l'—e sull'altipiano abissino. G. Dainelli, *n.*, 308
- Antarctic. See also Polar: ¶ American Discoveries of the — Continent. Maj-Gen. Greely, 525, 555*; Antártida Americana. L. R. Patron, 555*; Antarctic Names. E. S. Balch, 561; Impressions Antarcticaques. C. Alzonne, 555*; Antarctic Nature. As Illustrated by a Description of North-West Antarctica. O. Nordenskjöld, 74*; Über die Fortsetzung des Antarktischen Festlandes zwischen Enderbyland, Coatsland und Grahamland sowie das Vorhandensein von Neu-Südgrönland. W. S. Bruce, 795*; Recent — Discoveries. E. S. Balch, 161 ¶ Expeditions: Antarctic Expeditions of 1911-12. H. R. Mill, 555*; Australasian Antarctic Expedition, 122, 555*; — 1911. W. S. Bruce, 523; Dr.

- Mawson's—Expedition, 918; British—Expedition, 122, 714*; Scott's Second Antarctic Expedition. E. S. Balch, 270; German: Deutsche Antarktische Expedition. Bericht des Expeditionsleiters. W. Filchner, 555*; Filchner Expedition, 122, Forschungsgebiet der deutschen, usw. H. Singer, 475*; Japanese Antarctic Expedition, 690 ¶ Explorations and Scientific Results of: Allgemeiner Bericht über die Arbeiten der Deutschen Südpolar-Expedition und denen Verwertung. (1901-3). E. v. Drygalski, 152*; Amundsen's Antarctic Explorations. R. N. R. Brown, 555*; E. v. Drygalski Polarwerk "Zum Kontinent des eisigen Südens." H. Wagner, 152*; Erforschung des Südpolargebietes. E. v. Drygalski, 152*; Ozeanographische Arbeiten der Deutschen Antarktischen Expedition. W. Brennecke, 152*; Review of Results of Twenty Years of—Work originated by the Royal Geog. Soc. C. R. Markham, 714*; Die Schwedische Südpolar—Expedition und ihre geographische Tätigkeit. O. Nordenskiöld, *rev.*, 514 ¶ Maps: Antarctic. E. Banse, *n.*, 240; South Polar Regions . . . showing land discovered since 1900, 560*
- Antelope District, Nev., Notes on the. F. C. Schrader, 928*
- Antelope Valley, Cal., Water Resources of. H. R. Johnson, 469*
- Anthropogeography. See under Geography.
- Anthropology. See also Man: ¶ Ancient Hunters and their modern Representatives. W. J. Sollas, *rev.*, 702; Anthropology. R. R. Marett, *n.*, 467; Archiv für Anthropologie, 1866-1908, 948*; Beiträge zur Ethnographie und Anthropologie der Somäl, Galla, Harari. P. Paulitschke, 945*; *Bulletin de la Société d'Anthropologie de Paris*. 1860-1905, 941*; Catálogo de la Sección Antropológica der Museo de la Plata. R. Lehmann-Nitsche, 870*; Congrès Intern. d'Anthrop. et d'Archéologie préhistoriques, 124; The Golden Bough. Study in Magic and Religion. J. G. Frazer, part 1-3, *rev.*, 543; part 5, 787*; Head-Hunters of Northern Luzon. D. C. Worcester 873*; Journal of Anthropological Institute of Great Britain and Ireland, 1871-1907, 948*; Kulturelemente der Menschheit. K. Weule, *rev.*, 702; Die Kultur der Kulturlosen. Ein Blick in die Anfänge menschlicher Geistesbestätigung. K. Weule, 868*; Glacial Man. R. S. Lull, 876*; The Mind of Primitive Man. F. Boas, *rev.*, 64; Prehistoric Man. W. L. H. Duckworth, *n.*, 467; The present State of our Knowledge concerning the Three linguistic Stocks of Tierra del Fuego. A. F. Chamberlain, 70*; Die tierische Abstammung des Menschen. K. Ungar, 234*; Ursprung des Menschen oder die gegenwärtigen Anschauungen über die Abstammung des Menschen. A. Schmitt, 391*; Zwergvölker und Zwergwuchs. R. Pöch, 876*
- Antilles, Greater, Map, 237*
- Anti-Taurus, Map: ¶ Karte des Antitaurus. Auf Grund der Itineraraufnahmen . . . von H. Grothe, 318*
- Antwerp: ¶ Le port d'Anvers, 474*
- Anz, W., 717
- Aoste et ses environs, 144*; Vallée d'—vue à vol d'oiseau. C. Thomasset, *n.*, 144
- Apalachicola R. Basin. M. R. Hall & J. G. Mathers, 927*; River-Bank Vegetation of the Lower—and a New Principle illustrated thereby. R. M. Harper, 310*
- Apennines: ¶ Contributo alla Climatologia dell'Appennino Ligure. La pioggia nell'alta valle del Gorzente. G. Anfossi, 474*; Neue Untersuchungen und offene Fragen über die Morphologie des Zentral-Appennin. R. Almagià, 874*; Studien in den Kalkmassiven des Appennin. A. Rühl, 395*
- Apolima, Die deutsche Samoinsel. K. Wegener, 474*; Map, 239*
- Appalachian Mountain Club, Register of— for 1912, 629*
- Appalachian States, Copper Deposits of. W. H. Weed, 628* ¶ Maps: Northern part of Appalachian Province showing its physiographic divisions and its relation to the Coastal Plain, 154*; Relief map of Appalachian valley ridges, 155*
- Arabia: ¶ Arabic. N. Desverges, 942*; Arabic Self-Taught. A. Hassam, 146*; Arabian Desert and Human Character. E. Huntington, 393*; Behind the Veil in Persia and Turkish Arabia. M. E. Hume-Griffith, 945*; Bibliographie des ouvrages arabes ou relatifs aux Arabes, publiés dans l'Europe chrétienne de 1810-1885. V. Chauvin, 941*; Expedition of the

- Royal Danish Geogr. Soc. to Arabia. Preliminary Report. B. Raunkiaer, 657; Hedschäzbahn. M. Blackenhora, 393*; Kongelige danske geografiske Selskabs Ekspedition til Arabien. B. Raunkiaer, 872*; The Land of Uz. Abdullah Mansûr (G. Wyman Bury), *rev.*, 380; List of Works Relating to Arabia and the Arabs, 393*; Die Reise des Arabers Ibn Batûta durch Indien und China. (14. Jahrhundert.) Bearbeitet von H. v. Mîzik, *n.*, 866; Studien zur Laut- und Formenlehre der Mehri-Sprache in Südarabien. II. Zum Verb. M. Bittner, 872*; Traversata del deserto Arabico da Chena a Cosseir. E. Cortese, 393* ¶ Maps of Arabia: Arabie, *n.*, 318; Arabie du nord est. Itinéraire du Capitaine G. E. Leachman, 318*; The Land of Uz. 399*; B. Raunkiaers Reiseweg im nordöstlichen Arabien, 936*
- Arago, François, Correspondence d'Alexandre de Humboldt avec. T. T. Hamy, *rev.*, 385
- Aragon, Levantamientos hipsométricos en el Alto—, 395*
- Aral Sea. E. Markov, 393*
- Aran Islands. J. M. Synge, *n.* 548
- Ararat, L'Ascension du Mont. L. Seylaz, 232*
- Araújo, O., 925*
- Arc (Maurienne), Carte du glacier des sources de. P. Girardin, 319*
- Archæology: ¶ Accidents of an Antiquary's Life. D. G. Hogarth, *rev.*, 139; Annuaire de la Société Archéologique de la Province de Constantine 1853-62. Recueil des Notices et Mémoires, etc. 1863-1896, 948*; Antiquities of Mesa Verde National Park. J. W. Fewkes, 69*; Archæological Report, 1910-11. Egypt Exploration Fund, etc. E. L. Griffith, 711*; Index to Reports of the — 1890-1909. W. L. Nash, 945*; Archæologischer Wegweiser durch das Viertel ober dem Wiener Walde von Nieder-Österreich. E. v. Sacken, 946*; Congrès International d'Anthropologie et d'Archéologie préhistoriques, 124; Herkunft der Germanen. Zur Methode der Siedlungsarchäologie. G. Kossinna, 228*
- Arcimis, A., 234*
- Arctic. See also Greenland, Spitzbergen, etc.: ¶ Arctic Prairies. Canoe-Journey . . . Region North of Aylmer Lake. E. T. Seton, *rev.*, 295; Cyclonic Movements in the Arctic. E. Vincent, 690; Eskimos of Davis Straits in 1656. D. MacRitchie, 875*; The Great White North. Story of Polar Exploration from Earliest Times to the Discovery of the North Pole. H. S. Wright, *n.*, 65; Human Life in the Arctic. R. S. Tarr, 555*; Hunters and Hunting in the Duke of Orleans, *n.*, 548; M'Clintock's Famous Yacht, 775; Ice Condition in the—in 1911, 208; Remarkable Summer Journey in Arctic Seas. D. F. Gisbert, 288; Technique of Arctic Winter Travel. V. Stefánsson, 340 ¶ Expeditions: American Arctic Enterprises, 917; Crocker Land Expedition, 189, 288, Revised Plans of the, 429; Geplante dänische Expedition nach Königin-Luise-Land und quer über das Inlandeis. Nordgrönlands 1912/13. J. P. Koch, 555*; Danmark-Ekspeditionens Kort. J. P. Koch, 634*; Die geplante Polarunternehmung mit Zeppelinluftschiffen. W. Sievers, 475*; Unsere geplante—Eine Entgegnung auf Prof. Sievers' kritische Betrachtung. H. Hergesell, 475*; The German Arctic Expedition, 774; Narrative of an Expedition in H. M. S. Terror. Capt. Back, 940*; Report of Canadian Government Expedition to Arctic Islands and Hudson Strait on Board the *Arctic* 1908-9. J. E. Bernier, 74*, 925*; Return of R. M. Anderson, 917; Stefánsson's plans, 917 ¶ Explorations: Some Details of Mr. Stefánsson's Geographical Work, 660; Dr. Nansen on North Polar Exploration. C. R. Markham, 555*; In Northern Mîts. Arctic Exploration in Early Times. F. Nansen, *rev.*, 462; Peary's Nordpolarfahrt. E. v. Drygalski, 152* ¶ Maps of the Arctic: Arctic. E. Banse, *n.*, 240; Arctic Discoveries and Explorations up to July, 1853, *n.*, 160; Discoveries in the Arctic Sea. With additions and Changes to 1909 by J. Bernier, *n.*, 159; Die für 1912-14 geplanten Nordpolarforschungen, 720*; Maps of Expedition to the Arctic Islands and Hudson Strait on the "Arctic." J. E. Bernier, 159*; Map of Northern Islands of Canada, *n.*, 159; Map of southern portion of Melville Island, *n.*, 159; Charts; Facsimile Chart of Behring Strait, 1852, 160*; — Track Chart H.M. Sledge *Success*, Barrow Strait, 1851, 160*; Portion of Chart showing Morin's and Green's Tracks to Banks Land and Victoria Voyage of "Arctic" . . . 1908-9, 159*
- Arctowski, H., 598, 745; Personal, 370, 691
- Ardaillon, Lieut., 472*

- Ardennes, Handbook to Belgium including the — and Luxemburg 867*
 Ardgoil, Plant Geography of. T. Nisbet, 234*
 Ardouin-Dumazet, V. E., 926*
 Archavaleta, Prof. José, *Obituary*, 691
 Arequipa, Peru, The "Solar Constant" and the Variations of Atmospheric Temperature at—and some other Stations. H. Arctowski, 598
 Arey, A. L., Bryant, F. L. and others, 384
 Argentina: ¶Los Aborígenes de la República Argentina. F. F. Outes y C. Bruch, *rev.*, 299; Agricultural Statistics, 1910-11, 790*; Boletín del Ministerio de Agricultura, 1911, 311*; Argentina in 1910, 70*; Argentine. Past, Present and Future. E. L. Corthell, 551*; La chasse dans la Pampa de l'Argentine. G. Daireaux, 551*; Commerce for 1911, 790*; Cotton growing in. H. G. Mackie, 869*; Cultivation of Cotton in, 70*; French Delimitation Commission, 915; Meteorological Service, 851; République Argentine. A. Merchier, 551*; Universities in. E. E. Brandon, 551*; Wheat-Growing in Canada, the U. S. and the Argentine. W. P. Rutter, *rev.*, 372 ¶Maps of Argentina: Atlas Histórico de la República Argentina. Recopilado y redactado por J. J. Biedma y dibujado por C. Beyer, *rev.*, 880; Six Maps showing the habitat of its aborigines, 317*
 Arica-La Paz R.R.: Another Link from La Paz to the Sea. G. Fortescue, 930*
 Arizona: ¶Agriculture, Census 1910, 311*; Arizona a State, 203; Irrigation and Agricultural Practice in. R. H. Forbes, 710*; Irrigation, Farms and Acreage irrigated, etc., Census 1910, 929*; Manufactures, Census 1910, 147; Mineralogy of. F. N. Guild, *rev.*, 54; Population, Census 1910, 229*; Results of Spirit Leveling 1899-1909. R. B. Marshall, 69*; Turquoise Copper-Mining District. F. L. Ransome, 869* ¶Maps of Arizona: Flagstaff Quad., 933*; Roosevelt Quad., 933*; Map of Southwestern, *n.*, 797; Miami Copper Belt, 556*; Ray and Vicinity, 556*
 Arkansas: ¶Agriculture, Census 1910, 869*; Arkansas State Supplement. R. Bland. Tarr & McMurry's New Geographies, *n.*, 866; Birds of. A. H. Howell, 469*; Statistics of Manufactures, Census 1910, 550*; Population, Census 1910, 229*, 929*; Resources of. J. P. Henry, 943*; Results of Spirit Leveling in, 1896-1909, inclusive. R. B. Marshall, 69*; Wood-Using Industries and National Forests of. J. T. Harris and F. Kiefer, 788*
 Arldt, T., 396*
 Armenia: ¶Around the Black Sea, Armenia, Asia Minor, etc. W. E. Curtis, 389*; Durch Armenien, eine Wanderung, und der Zug Xenophons bis zum Schwarzen Meere. E. v. Hoffmeister, *rev.*, 783; Turkish Armenia. H. F. Tozer, 947* ¶Maps accompanying Hoffmeister's "Durch Armenien," *n.*, 400
 Arminjon, P., 871*
 Arno, The Val d'—as it once was, Map, *n.*, 400
 Arnoux, J., 537
 Aroroy District, Masbate, Geology and Mineral Resources of. H. G. Ferguson, 554*
 Aruwimi River. R. L. Reid, 148*
 Asia: ¶Asia. F. G. Carpenter, 227*; Asien. W. Sievers, 947*; Ausbreitung kalter Luft in Russland und Nordasien. H. v. Ficker, 73*; Beiträge zur Geologie Ost-Asiens und Australiens, 308*; Climatic Changes in the Nearer East. A. T. Olmstead, 432,—A Reply. E. Huntington, 440; The Far East Revisited. A. G. Angier, 940*; Fortschritte der Länderkunde des asiatischen Orients 1908-10. E. Banse, 232*; Fortschreiten der Erwärmungen in Russland und Nordasien. H. v. Ficker, 793*; La géologie et les richesses minérales de l'Asie. L. de Launey, *rev.*, 535; Irrigation in western. A. P. Davis, 632*; Laying Emphasis in Teaching Geography in. R. H. Whitbeck, 149*; Letters from the Far East. Sir Charles Eliot, 942*; Life in the Moslem East. P. Ponafidine, *rev.*, 302; Meine Vorderasienexpedition 1906 und 1907. Band I, Teil I. Fachwissenschaftlichen Ergebnisse. H. Grothe, *rev.*, 302; Les soies dans l'extrême Orient et dans les colonies françaises. H. J. de Coredemoy, 941*; The Soul of the Far East. P. Lowell, 866*; Travels and Studies in the Nearer East A. T. Olmstead, B. B. Charles and J. E. Wrench, 625*; Unoccupied Mission Fields of Africa and Asia. S. M. Zwerner, *n.*, 350; Die weitere Entwicklung der Kautschukkultur in Südostasien. E. Helferich, 632* ¶Historical: Asia and America. Historical Disquisition concerning the Ideas which former geographers had about

- Geographical Relation and Connection of the Old World and New World. J. G. Kohl, 632*; Geschichte des östlichen Asiens. J. H. Plath, 945*; Histoire géographique des Seize Royaumes. Transl. from the Chinese and annotated by A. des Michels, 945*; Foë Koué Ki ou Relation des Royaumes Bouddhiques. Traduit du chinois par A. Rémusat. Ouvrage Posthume. Complété par Claproth et Landresse, 946*; Memoir on the Euphrates Valley route to India. W. P. Andrew, 939*; Recueil des Traités conclus par la France en Extrême-Orient (1684-1902). L. de Reinach, 390* ¶ Maps of Asia: Asie Orientale, *n.*, 238; The Farther East [Ostasien]. E. Banse, *n.*, 240; Asia; Geographical Divisions, *n.*, 318; Map illustrating Russian Advance in, 157*; Region of the Mediterranean and the Near East, *n.*, 400; Routes of Bacot, Fergusson and Weiss, 318*; Verbreitung und Intensität des Reisebaus in Asien. C. Wachmann, *n.*, 320
- Asia Minor: ¶ Around the Black Sea, —Armenia, etc. W. E. Curtis, 389*; Die Hedschäzbahn. M. Blanckenhorn, 393*; Principal Ruins of. C. Texier & R. P. Pullan, 947*; Reisen und Forschungen im westlichen Kleinasien. Ionien und das westliche Lydien. A. Philippson, 313*; Über Meerschäum und Meerschäum-Fundstätten bei Eskischehir in Kleinasien. A. Reinhardt, 473*; Notes on the Troad. W. Leaf, 793* ¶ Maps of Asia Minor: Geologische Karte des westlichen Kleinasien. A. Philippson, *n.*, 559; The Troad after Kiepert and Philippson with corrections by W. Leaf, 798*
- Asiatic Turkey. See also Ottoman Empire: ¶ Amurath to Amurath. G. L. Bell, *rev.*, 134; La France dans le Levant. V. Bérard, 713*; Die jüngste Forschungs-Expedition des Freiherrn Max von Oppenheim in der Asiatischen Türkei, 553*; De Mossoul à Bagdad. Une mission nécessaire. J. Drure, 712*; Palestine and Syria, with Routes through Mesopotamia, Babylonia and Cyprus. Handbook for Travellers. K. Baedeker, *n.*, 866 ¶ Maps of Asiatic Turkey: Maps accompanying "Biblical Geography and History," *n.*, 320; Map illustrating "Zug des Xenophons bis zum Schwarzen Meere, 400"; Zweite Reise in der Asiatischen Türkei 1899 von M. v. Oppenheim, 79*; Sketch Map to show approximately Railways in, *n.*, 937
- Central Asia: ¶ Central Asian Question. D. C. Boulger, 941*; Durch Central-Asien. H. Moser, 945*; Ruins of Desert Cathay. Narrative of Explorations in Central Asia and Westernmost China. A. Stein, *rev.*, 537; Sven Hedins Anteil an der Erforschung Zentralasiens. M. Rieger, *n.*, 467 ¶ Map: Asie Centrale, *n.*, 238
- Russian Central Asia: Russia in Central Asia. H. Stumm, 947* ¶ Map: Map illustrating Russian Advance in Central Asia, 157*
- Asphalt, What is—? 716*
- Aspinall, A. E., 551*
- Assada, I., 632*, 875*, 927*
- Assam: ¶ Tarikh-i-Asham. Récit de l'Expédition de Mir-Djumlal au pays d'Assam. Traduit sur la version Hindoustani de Mir-Huqaini par T. Pavie, 945*; Les tribus de frontière et la pénétration anglaise du Haut—. C. E. Bonin, 313* ¶ Map: Carte du Haut-Assam, *n.*, 400
- Association of American Geographers, Annals of the—, Vol. 1, 1911, *rev.*, 531; Eighth Annual Meeting of, 118
- Assyria: ¶ Ancient—. C. H. W. Jones, 867*; Aspects of Religious Belief in Babylonia and —. M. Jastrow, Jr., *rev.*, 216; Geschichte Babylonien und Assyrien. F. Hommel, 943*
- Astronomy: ¶ Astronomische Erdkunde. O. Hartmann, *n.*, 228; Le ciel et l'atmosphère. L. Houllévigüe, *rev.*, 140
- Athens: ¶ Athen und Attika. A. Struck, *n.*, 309; Greek Commonwealth. Politics and Economics in Fifth-Century Athens. A. E. Zimmern, 787*; Topographie von Athen. W. Judeich, 944*
- Atlantic Ocean: ¶ Ergebnisse einer ozeanographischen Forschungsreise in dem Atlantischen und dem S. O. Stillen Ozean. R. Lütgens, 715*; Neue Forschungen in nördlichen Atlantischen Ozean. (The Michael Sars Exp.) B. Helland-Hansen, 315*; Über Meeresströmungen zwischen Kap Horn und La-Plata Mündung. J. Klaehn, 315*; Notes on North Atlantic Currents as deduced from the Course of Derelicts. A. Hautreux, 529; Observations météorologiques du "François Arago" au large du Terre Neuve. H. Baulig, 152*; Salinity of the. A. Voëikov, 209; Temperaturschwankungen der Meeresoberfläche von Ouessant bis St.

- Paul-Fels. H. Liepe, 153* **Q** Maps of Atlantic Ocean: Hypothetische Darstellung der Verteilung der magnetischen Abweichung im Atlantischen Ozean um das Jahr 1500. F. Nansen, 240*; Océan Atlantique et Océan Indien, n., 320; Reiseweg und Lotungen der Deutschen Antarktischen Expedition zwischen den Azoren und Pernambuco, 80*; School Wall Map, n., 240
- Atlases: **Q** Atlas classique. France et Colonies. Cartes géologiques, physiques hypsométriques et politiques. Schrader et Gallouédec, n., 800; Atlas classique. G. Niox M. Fallex, et E. Darsey, n., 880; Atlas of Counties of New York State, n., 316; Atlas zur Geschichte der Kartographie der Pananischen Inseln, nebst dem Holländischen Journal der Reise Mathys Quasts und A. J. Tasmans zur Entdeckung der Goldinseln im Osten von Japan I. D. J. 1639. Transl. P. Teleki, rev., 459; Atlas Histórico de la República Argentina, Recopilado y redactado por J. J. Biedma y dibujado por C. Beyer, rev., 880; Atlas photographique des formes du relief terrestre. Documents morphologiques, etc., rev., 94; Atlas Universel de Géographie. L. V. de St. Martin et Fr. Schrader, rev., 799, New Edition of, n., 856; Century Atlas of the World. B. E. Smith, rev., 863; Citizen's Atlas of the World. Edited by J. G. Bartholomew, rev., 880; Deutsche Handatlanten. A. Penck, 876*; Justus Perthes' Taschen-Atlas. H. Habenicht und H. Wichmann, n., 800; New School Atlas of Modern History. R. Muir, n., 800; Peip's Taschenatlas von Berlin und weiterer Umgebung, n., 800; Philips' Chamber of Commerce Atlas, n., 800; Pratt's Road Atlas of England and Wales, n., 800; Rand, McNally & Co's New Imperial Atlas of the World, n., 800; School Atlas of English History, n., 800, 942*; Stufenatlas für höhere Lehranstalten. Herausgegeben von H. Fischer und M. Geistbeck, rev., 879; Tabularum Geographicarum contractarum. Libri Septem. (Édition très augmentée du petit Atlas de Bertius.) (1618). P. Bertius, 940*
- Atlas Mountains, Map: Schematische Darstellung der Hauptübergänge über den westlichen Hohen Atlas, 78*
- Atmosphere: **Q** Charts of the—for Aeronauts and Aviators. A. L. Rotch and A. H. Palmer, rev., 861; Le Ciel et l'Atmosphère. L. Houllévigues, rev., 140; Estudios relativos á la atmósfera terrestre. C. Flammarion, 355*; Free Air Data at Mount Weather for Oct., Nov., and Dec., 1910. W. R. Blair, 475*; Origin of Centers of Action of the Atmosphere. W. J. Humphreys, 526; Über den Wärmeaustausch zwischen der Erdoberfläche und der darüber fließenden Luft, usw. F. M. Exner, 397*
- Attica: **Q** Athen und Attika. A. Struck, n., 309
- Atwood, W. W., 154*, 310*, 468*, 593, 627*; — and K. F. Mather, 927*
- Aubry, J., 472*
- Audemard, L., 79*, 232*
- Aurès. **Q** Les Monts Berbères. Kabylie et Aurès. Les Tribus et les paysages. M. Boissard, 871*; Note concernant les Aoulad-Daoud du Mont Aurès. E. Masqueray, 944*
- Australasia: **Q** History of, from Earliest Time to the Present Day with a Chapter on Australian Literature. A. W. Jose, n., 787 **Q** Maps of Australasia: Bacon's Excelsior Map of, n., 720; Greater Australia, E. Banse, n., 240
- Australia: **Q** Australian Glaciation. W. Howchin, 554*; Australien und Neuseeland. R. Schachner, 308*; Beiträge zur Geologie Ost-Asiens und, 308*; Building of Eastern. H. I. Jensen, 794*; Flowing Wells of Central. J. W. Gregory, 232*; Fortschritte der geographischen Forschungen in Australien und Ozeanien, 1910. N. Krebs, 232*; Geographical Unity of Eastern — in Late and Post Tertiary Time, with Applications to Biological Problems. E. C. Andrews, 554*; Some Impression of. Earl of Dudley, 554*; L'industrie beurrière en Australie. O. Sergoyenne, 554*; Marriage and Descent in North and Central. A. R. Brown, 793*; Mining Laws of Australia and New Zealand. A. C. Veatch, 473*; Native Tribes of South East. A. W. Howitt, 943*; Official Year Book of the Commonwealth of — Statistics for 1901-11 and Corrected Statistics for 1788 to 1900. G. H. Knibbs, 308*; n., 926; Le non peuplement de l'Australie. C. Cilvanet, 150*; Physiography of Eastern. G. Taylor, 554*; Population, Census 1911, 530; Rainfall of, 553; Romance of —, its Discovery and Colonization. Edited by H.

Strang, 308*; Settlement by "Whites" of Tropical Australia. J. M. Creed, 793*; White Colonization in Australian Tropics. A. W. Tilby, 554*; Second Report by Director on Fishing Experiments carried out by the *Endeavour*, 1909-10, 473*; Die totemistischen Kulte der Aranda- und Loritja-Stämme. C. Strehlow, 625*; Trade in the Future. H. S. Gullent, 313*; Trade and Irrigation in. N. Nielsen, 554* ¶ Maps of Australia: Rain Map of — 1910, 798*; Verbreitung der Speerschleuder in Australien. F. Graebner, n., 478

South Australia: ¶ Population, Census 1911, 530

Western Australia: ¶ Annual Progress Report Geological Survey for 1910, 473*; A British State in the Making. N. J. Moore, 314*; Mining Industry of. E. Thomas, 232*; Notes on some Tribes of. R. H. Mathews, 150*; Some Notes on Principal Geological Features of the Kalgoorlie Goldfield. C. G. Gibson, 473*; Population, Census 1911, 530; Progress and Prospects of Mining in. A. Montgomery, 73*; Report by the Surveyor General for 1911, Ending June 30th, 633*; Results of Boring for Artesian Water on the Eucla Plateau. A. G. Maitland, 473*

Austria-Hungary: ¶ Austria-Hungary, with Excursions to Cetinje, etc. Handbook for Travellers. K. Baedeker, 68*; In the Carpathian Mountains. L. Phillimore, 787*; La Géographie en Allemagne et en Autriche. F. Kraentzel, 554*; Über die Kalkalpen zwischen dem Almtal und dem Traungebiet. G. Geyer, 73*; Mitteilungen des k. u. k. Militärgeogr. Institutes, 1911, 394*; Die österreichisch-ungarische Monarchie in Wort und Bild, 940*; Der Römische Limes in Österreich. M. v. Grollier & E. Bormann, 943*; Verteilung der Kulturen und die Volksdichte in den österreichischen Alpen. N. Krebs, 794*; Waldgrenzstudien in den österreichischen Alpen. R. Marek, 73* ¶ Maps of Austria-Hungary: Extracts from "Generalkarte von Mitteleuropa," sheet Trient, n., 160*; Karte der Raxalpe, Karte der Lechtaler-Alpen, n., 719; Übersicht der Arbeiten an der Generalkarte, n., 479; Übersicht der Arbeiten an der Spezialkarte, n., 478; Umgebungskarte der Drosendorf, 80*

Aviation: See Aeronautics.

Avignon, The Story of. T. Okey, n., 709

Avignon, The Story of. T. Okey, 709*

Aylmer, L., 71*

Aymard, A., 553*

Aymé, L. H., 230*

Ayr, Geographical Description of the County of. T. M. Steven, 795*

Ayres, P. W., 788*

Ayrton, E. R. & W. L. S. Loat, 940*

Aztec Calendar: El calendario Azteca o la piedra del sol, con la interpretación de sus figuras. P. González, 630*

B

Babb, C. C. See Barrows, H. K.

Babylonia: ¶ Aspects of Religious Belief in—and Assyria. M. Jastrow, *rev.*, 216; Geschichte Babylonien und Assyriens. F. Hommel, 943*

Bachmann, C., 795*

Back, Capt., 940*

Backman, A., 314*

Bacon, E. M., 468

Bacon, Francis McNeill, *Obituary*, 918

Bacon, G. W., 720

Baden: ¶ Ortsverzeichnis für das Grossherzogtum Baden auf Grund der Volkszählung . . . 1905, 151*; Statistisches Jahrbuch für das Grossherzogtum Baden, 1910-11, 314*

Baedeker, K., 68*, 146*, 390*, 866*, 926*

Bagagem and Agua Suja, Diamond-Bearing Deposits of—in Minas Geraes. D. Draper, 551*

Baganda, The. Account of Their Native Customs and Beliefs. J. Roscoe, *rev.*, 456

Bagdad: ¶ De Mossoul à. J. Drure, 712*; Bagdad Railway and Why it is of Interest to the United States. A. Gleaves, 793*

Bahia: ¶ Aggraded Limestone Plains of the Interior of—and Climatic Changes suggested by them. J. C. Branner, 70*; Fundação da Bahia. B. do Amaral, 931*; Geography of North-eastern. J. C. Branner, 71* ¶ Map: Plan of Bahia. Arrival of the portuguese [sic] fleet . . . 1625, to chase the Dutch. After a dutch [sic] engraving, 320*

Bahr-el-Ghazal, Lo sviluppo economico del. P. Tappi, 148*

Bahr-Sara, La Région du. Maistre, 944*

Baikal Lake, Sailing Directions and Sketch of Physical Geography of. [In Russian], 227*

- Baikie, J., 382
 Bailey, E. H. S., 69*
 Bailey, F. M., 559*, 632*
 Bailey, W. S., 75*, 76*
 Baillie Grohmann, W. A., 940*
 Baker, C. L., 468*
 Baker, O. E. See Whitson, A. R.
 Balboa Bay, Sketch Map of shore features near the head of, 154*
 Balch, E. S., 161, 270, 561, Personal, 915
 Baldacci, A., 312*, 314*, 688, 933*
 Baldwin, A. L., 549*
 Baldwin, Kan., Results of Observations made at the Coast and Geod. Sur. Magn. Observ. at—1907-9. D. L. Hazard, 69*
 Balearic Islands: ¶ Bau und Boden der Balearischen Inseln. H. Praesent, II., 309
 Balkan Peninsula: ¶ Donau; Bulgarien und der Balkan. F. Kanitz, 944*; Notes sur la mission Senn dans les Balkans. F. Senn, 233* ¶ Map: Schauplatz eines zukünftiges türkisch-bulgarischen Konfliktes, II., 239
 Ball, F., 145
 Ball, J., 792*
 Ball, J. D., 783
 Ball, L. C., 394*, 560*
 Pallivian, A., 226*
 Ballivián, M. V., and Pinilla, C. F., 307*
 Ballooning: ¶ Hilfsmittel und Methoden zur Bestimmung der geographischen Lage des Ballonortes bei Fahrten über und in den Wolken und bei Nacht. P. Kahle, 315*
 Balta, J., Personal, 293
 Baltic Regions: ¶ Das Ostseegebiet. G. Braun, 467*; Storstäderna vid Östersjön. [Large Cities on the Baltic.] S. De Geer, 554*
 Baltic Sea: ¶ Eisverhältnisse des Winters 1910/11 in den ausserdeutschen Gewässern der Ostsee sowie an der holländischen Küste, 151*; Erdmagnetische Störungen im Ostseegebiet. W. Krebs, 152* ¶ Map: Tiefenkarte der Beltsee. H. Spethmann, II., 160
 Baltistan: ¶ Der Tschochogletscher in K. Oestreich, 393*
 Baluchistan: Earthquake of 21 Oct., 1909, A. M. Heron, 149* ¶ Map of Baluchistan, II., 478
 Bananas: ¶ Bananenkultur, geographisch, wirtschaftlich und kulturhistorisch betrachtet. R. Rung, 234*
 Bancroft, H., 69*; See also Irving J. D.
 Bandelier, A. F., 630*
 Bandelier, F., 940*
 Bangweolo: ¶ Le — et la frontière anglo-congolaise au sud de ce lac, 631*; Bangweulu Swamps and the Wa-Unga. F. H. Melland, 149*
 Banse, E., 232*, 240*
 Bantu: ¶ Bantu-Neger. M. Büchler, 931*; Siedelungsverhältnisse der. A. Schachtzabel, 392*
 Barbarich, E., 634*
 Barich, C. See Pilhofer, G.
 Baring-Gould, S., 383
 Baring, M., 218
 Barkow, E., 235*, 715*
 Barnes, C. A. A., 553*
 Barnes, John S., *Obituary*, 52
 Barnett, V. H., 788*
 Baroda, A Year with the Gaekwar of. E. St. Clair Weeden, II., 860
 Barrell, J. and Laughlin, G. F., 549*
 Barrett, J., 211
 Barrett, W. E. H., 932*
 Barrows, H. K., 310*, 468*, 469*; — and C. C. Babb, 627*; — C. C. Coverter and R. H. Bolster, 391*
 Barth, J., 712*
 Barthold, F. W., 940*
 Bartholdy, K. Mendelssohn, 940*
 Bartholomew, J. G., 880
 Bartlett, D., 795*
 Bärtschi, E., 396*
 Baschin, O., 235*
 Basden, G. T., 553*, 559*
 Basilicata, La malaria in (Map), 879*
 Bass, R. P., 229*
 Bassenne, M., 873*
 Basutoland Records (1883). G. M. Theal, 947* ¶ Map: Basutoland, II., 798
 Batavia: ¶ Windverhältnisse in den oberen Luftschichten nach Ballonvisierungen zu Batavia, nach Dr. van Bemmelen. P. Perlewitz, 715*
 Battiscombe, E., 71*
 Batum, 393*
 Bauer, L. A., 549*; — and Peters, W. J., 152*; —'s Magnetic Work, 119, 293
 Baulig, H., 152*
 Bavaria: ¶ Die bayrischen Hochseen. J. Reindl, 713*; Jahresbericht der Staatseisenbahn-Verwaltung, 1910, 233*; Ostbayerische Überschiebung und die Tiefbohrungen bei Straubing. A. Rothpletz, 554*; Topische Geographie von Bayern. F. W. Walther, 948* ¶ Maps of Bavaria: Fourteen Sketch Maps entitled: Mittlere Jahres- und Monatstemperaturen der Schwäbisch-Bayerischen Hochebene, 479*
 Bavier, E. de, 940*

- Bay Psalm Book. Being a *Facsimile* Reprint of the first Edition printed by Stephen Daye at Cambridge, New England in 1640, 868*
 Bayley, W. S. and C. R. Van Hise, 75*
 Bayly, M., 203*
 Bazancourt, C. Baron de, 940*
 Baxter, M. E. See Beckwith, F.
 Beach-La-Mar. Jargon or Trade Speech of Western Pacific. W. Churchill, *n.*, 60
 Beak, M., 148*
 Bealby, J. T., 466*
 Bear River Range, Notes on Lead and Copper Deposits in. R. W. Richards, 69*
 Beaufort Harbor, N. C., Chart, 236*
 Beazley, C. R., 396*
 Bebb, E. C., 76*
 Bebbler, H. v., 73*
 Beck, R., 146*
 Becker, A., 634*
 Beckett, H. W., 351
 Beckwith, F., M. E. Macauley and M. S. Baxter, 146*
 Beddoe, J., 940*
 Bedouins: ¶ *Études sur le Folklore Bédoûin de l'Égypte*. E. Klippel, 472*
 Beech, M. W. H., 299
 Beirut: ¶ *La Faculté française de médecine de Beirouth*, 393*
 Belgium: ¶ *Commerce extérieur de la Belgique en 1910*, 73*; *La densité de la population de la Belgique*, 874*; *Handbook to, including the Ardennes and Luxemburg*, *n.*, 867; *The Land of Art. Its History, Legend, etc.* W. E. Griffiths, *n.*, 867; *Lo sviluppo economico e l'evoluzione industriale del Belgio*. A. Guarnieri, 874* ¶ *Maps of Belgium: Carte des chemins de fer, routes & voies navigables de la Belgique*, *n.*, 639; *Tableau d'assemblage des cartes de la—avec liste alphabétique des noms des communes*, *n.*, 639
 Bell, A. F. G., 382
 Bell, G. L., 134
 Bell, J. M., 794*
 Bell, L. L., 712*
 Bell, W., 548*
 Bellefeuille, M. de, 550*
 Belmar, F., 630*
 Beltran y Rozpide, R., 471*, 551*
 Benadir, *Attraverso il*. T. Carletti, *n.*, 227
 Benezet, A., 940*
 Bengazi: ¶ *Bengasi e dintorni*. G. Pera, 149*; ¶ *Map: Plan von Bengasi*, *n.*, 238
 Benjamin, G. G., 940*
 Ben Nevis Observatories, *Meteorology of the*. J. Hann, 875*
 Bent, A. C., 627*
 Benton, P. A., 227*
 Benue River: ¶ *La voie de la Bénoué*. Capt. Mercier, 710*
 Bérard, V., 713*
 Berbrugger, A., 940*
 Berger, H., 940*
 Berici Hills, *Physiographic Notes on the*, 774
 Bering Strait, *Facsimile Chart of—* 1852, 160*
 Berkey, C. P., 549*
 Berkshire. (Cambridge County Geographies). H. W. Moncton, 390*; *Place names of*. W. W. Skeat, 144*; ¶ *Maps of Berkshire: Geological Map, Physical Map*, 319*
 Berlin, Peip's *Taschenatlas von—und weiterer Umgebung*, *n.*, 800
 Bernard, Général, 471*
 Bernhard, H., 554*
 Bernier, J. E., 74*, 159*, 925*
 Berry, A. J., 625*, 864
 Berry, E. W. See Clark, W. B.
 Berry, H. M. See Pratt, J. H.
 Bertel, R., 315*
 Bertius, P., 940*
 Bews, J. W., 872*
 Bey, M., 396*
 Beyer, A., 471*
 Beyer, C. See Biedma, J. J.
 Bibbins, A. B. See Clark, W. B.
 Biblical Geography and History. C. F. Kent, *rev.*, 781 ¶ *Maps: Bibelatlas in 20 Haupt- und 28 Nebenkarten*. H. Guthe, *n.*, 782; *Main Highways of Ancient Semitic World, The Old Testament World, Main Highways of the Roman Empire and the Scenes of Paul's Work*, 320*
 Bibliographies. See also Catalogues and Indexes; ¶ *Bibliographie des ouvrages arabes ou relatifs aux Arabes . . . 1810-1885*. V. Chauvin, 941*; *List of Works Relating to Arabia and the Arabs*, 393*; — *Géographie Annuelle (xxe)* 1910, *n.*, 547; *Bibliography of Ascents of Mont Blanc from 1786 to 1853*. H. F. Montagnier, 394*; — of *North American Geology for 1910*. J. M. Nickles, 391*; — of *Wisconsin's participation in the War between the States*. Compiled by I. S. Bradley, 142*; *Dictionnaire bibliographique des ouvrages relatifs à l'Empire Chinois*. H. Cordier, 942*; *List of Works relating to the Isle of Man*. G. F. Black, 395*; *Notice sur les Tra-*

- vaux scientifiques de E. A. Martel, 397*
- Bidart, R., 234*
- Biddulph, J., 940*
- Biedma, J. J. & Beyer, C., 880
- Bighorn Coal Basin, Alberta. G. S. Malloch, 311*
- Biloxi and Ofo Languages, Dictionary of the. J. O. Dorsey and J. R. Swanton, 549*
- Bingham, H., 20, 451, 552*
- Bingham, J., 940*
- Biot, E., 940*
- Bird, J., 940*
- Birdseye, C. See Henshaw, H. W.
- Birge, E. A., 235*
- Birkinbine, J. L. W., 307
- Biro, J., 716*
- Bishop, A. L., 10, 550*; Personal, 291
- Biskra: ¶About Algeria . . . Biskra, Timgad. C. Thomas-Stanford, *rev.*, 535
- Bismarck Archipelago: ¶Die fossilen Foraminiferen des Bismarckarchipels und einiger angrenzender Inseln. R. Schubert, 712*; Wissenschaftliche Ergebnisse einer amtlichen Forschungsreise nach dem — im Jahre 1908. G. Friederici, *rev.*, 923
- Bittencourt, F. P., 307*
- Bitterroot Valley, Mont., The Mammals of—in their Relation to spotted Fever. H. W. Henshaw and C. Birdseye, 69*
- Bittner, M., 872*
- Bizerta: ¶Le port de Bizerte. E. Galois, 393*
- Black, G. F., 395*
- Blackburn Mount, Alaska, First Expedition to. D. Keen, 868*
- Blackfeet Indians: ¶Blackfoot Lodge Tales. G. B. Grinnell, 943*
- Black Sea: ¶Around the Black Sea, Asia Minor, Armenia, etc. W. E. Curtis, 389*; Durch Armenien, eine Wanderung . . . bis zum Schwarzen Meere, E. v. Hoffmeister, 783*
- Blackwelder, E., 627*
- Blagden, C. O. See Skeat, W. W.
- Blair, W. R., 475*, 627*, 927*
- Blanchard, A. H. and H. B. Drowne, 621
- Blanchard, C. J., 549*
- Blanchard, R., 314*
- Blanche-Bucht (Neupommern), mit den Vulkanen Ghaie und Raluan, (Map), 79*
- Blankenhorn, M., 393*
- Blanco, P. A., 148*, 551*
- Bland, R., 866*
- Bland-Sutton, J., 535
- Blane, W., 711*
- Blassneck, M. F., 867*
- Blatchley, R. S., 417
- Bleek, W. H. I. and Lloyd, L. C., 534
- Boas, F., 64, 788*
- Boers: ¶Bei den Buren. R. Pösch, 870*; La langue des Boers. A. Lode-wyckx, 71*
- Boerschmann, E., 793*
- Boese, E., 549*
- Boga Lake, Victoria, Aborigines of. A. C. Stone, 314*
- Bohemia: ¶Die historische Geographie Böhmens bis zum Beginne der deutschen Kolonisation. W. Friedrich, 633*; Topographia Bohemiz, Moraviz, et Silesiz. M. Merian (1650), 945*
- Bohol, Chart of Western, 237*
- Böhringer, C., 872*
- Boisnard, M., 871*
- Boissière, G., 940*
- Bokhara: ¶Emir of Bokhara and his Country. O. Olufsen, *rev.*, 304 ¶Map of Emirate of, n., 157
- Bolivia: ¶Bolivia in 1910, 230*; General Data, 1909, 931*; — and the opening of Panama Canal, 870*; Bolivia's New Connection with the Pacific, 687; Datos para la busca del Vanadium en —. P. A. Blanco, 148*; French Delimitation Commission in, 915; Fuel Resources of the Central Andes, 287; Information about —, 870*; Informe del Director General de Obras publicas A. Capriles. 1910-11, 630*; El Laudo Argentino. Inacceptable para Bolivia. Inconveniente para el Perú. A. Ballivian, 226*; Monografía de la Industria de la Goma Elástica en—. M. V. Ballivian y C. F. Pinilla, 307*; Monografía de la industria Minera en. P. A. Blanco, 551*; Railways, 471*; Reisen in Bolivien und Peru. R. Hauthal, *rev.*, 614; Search for the Apex of America. High Mountain Climbing, etc. A. S. Peck, *rev.*, 298; Übersetzung des Berichtes über Bolivianische Zinnproduktion, 471* ¶Maps of Bolivia: Les Explorations de 1910 dans la Bolivie, etc., n., 317; Mapa demostrativo desarrollo de los Ferrocarriles en Bolivia, n., 798; Position of River Heath, n., 156; Reiseroute von R. Hauthal, n., 78
- Bolster, R. H. See Freeman, W. B. & Barrows, H. K.
- Bolton, H. E., 60*
- Bombay and Hyderabad, Map, n., 478
- Bonacina, L. C. W., 221

- Bone, J., 701
 Bonillas, Y. S., 392*
 Bonin, C.-E., 234*, 313*, 553*, 539
 Bonnefond, 72*
 Bonney, T. G. and others, 787*
 Bonsteel, J. A., 788*
 Book Reviews and Notices, 53, 127, 211, 295, 371, 455, 531, 613, 693, 777, 857, 919
 Booth, J., 872*
 Bordeaux, A., 72*
 Bordeaux, Le port de. J. Laroze, 633*
 Borghesani, G. A. R., 634*
 Bormann, E. See Groller, M. v.
 Borneo: ¶Notes on Sea Dyaks of. E. H. Gomes, 313*; Borneo's Western-Afdeeling. P. J. Veth, 948*
 Borrer, D., 940*
 Bortoli, L., 233*
 Borup, George, Death of, 429
 Bosnia and Herzegovina. Maps: Strategische Eisenbahnen und Eisenbahnpläne in, 80*
 Boston, Sheet North K. 19, Intern. Map of the World, 934*; n., 843; Chart of Boston Harbor, 235*
 Bosworth, G. F., 390*
 Bouchette, E., 311*
 Boulder, Co., Col., Main Tungsten Area of. R. D. George, 469*
 Boulenger, G. A., 71*
 Boulger, D. C., 940*, 941*
 Boulogne-sur-Mer, Chambre de Commerce de —, Statistiques, 1910, 73*, 1911, 874*
 Boundaries: ¶Accords Franco-Allemands et les négociations Marocaines. A. Terrier, 392*, 472*; French Delimitation Commission in Bolivia, 915; Frontière Algéro-marocaine: L'Amalat d'Oudjda. Commandant de Choulot, 472*; Idaho-Washington Boundary, 119; Peru-Bolivia Boundary. El Laudo Argentino. Inacceptable para Bolivia. Inconveniente para el Perú. A. Ballivian, 226*; Study of the Question of Boundaries between Peru and Ecuador. V. Santamaría de Paredes, *rev.*, 857; Les Turcs en Afrique Centrale. La frontière franco-tripolitaine. M. Cortier, 231*
 ¶Maps of Boundaries: L'Afrique Equatoriale d'après l'accord Franco-Allemand, n., 157; Four Maps accompanying "L'accord franco-allemand du 4 Nov., 1911 relatif au Congo," n., 157; La "Coupure" projetée en Sept. 1911, n., 157; Franco-German Agreement, n., 157; Das Kamerun-Kongo-Abkommen zwischen dem Deutschen Reich und Frankreich vom 4 Nov., 1911, n., 156; Sketch Map showing Cessions of Territory in Equatorial Africa provided for by Franco-German Treaty of Nov., 1911, 157*; Die neue deutsch-belgische Grenze im Kiwu-Gebiet, 78*
 Bourgogne, Franche Comté, Narbonnaise. W. M. Fullerton, 942*
 Boutwell, J. M., 927*
 Bower, F. O., 228*
 Bowie, W., 691*, 391*, 927*; See also Hayford, J. F.
 Bowler, L. P., 377
 Bowman, I., 127, 552*, 881; Personal, 291
 Boyd, C., 231*
 Boyes, John, King of the Wa-Kikuyu. Written by Himself, n., 708
 Bradley, A. G., 614
 Bradley, I. S., 142*
 Brady, Wm., 941*
 Brahmaputra, Sangpo — Problem, 122
 Brandenburg: ¶Preussische und Brandenburgische Reichs- und Staats-Geographie. C. Abel, [1735], 939*
 Brandon, E. E., 551*, 791*
 Branner, J. C., 70*, 71*
 Braun, F., 635*
 Braun, G., 414*, 467*, 713*, 873*
 Brauzzi, A., 473*
 Bravo, E., 394*, 552*
 Brazil: ¶All-Rail Route between Montevideo and Rio de Janeiro, 471*; Almanaque Brasileiro Garnier, 1911, 551*; Alto Brasile. Missione e Colonia, etc. Notizie storiche, geografiche, etc. P. T. Zani da Brescia, n., 925; In the Amazon Jungle. A. Lange, n., 466; Brasilianische Rassenfrage. O. Canstatt, 551*; Brazil in 1910, 71*; Le Brésil et son caoutchouc: Le Para. P. Le Cointe, 551*; British Guiana and Brazil to Mount Roraima. H. E. Crampton, 471*; Catálogo de la Sección Antropológica del Museo de la Plata. R. Lehmann-Nitsche, 870*; Compendio de corographia do Brasil de Accôrdo com o Programma do Gymnasio Nacional. F. B. Bittencourt, n., 307; Espansione Coloniale e Commerciale dell'Italia nel Brasile. P. Ubaldi, *rev.*, 57; Les Français au Brésil et en Floride (1530-1568). E. Guénin, 308*; Geographia, Geologia, Supplimento d'Agua, Transportes Norte do Brazil, Ceará, Rio Grande do Norte, Parahyba. R. Crandall, 227*; Higher Education in. E. E. Brandon, 551*; Madeira & Mamoré

- R. R., 230*; Maynas. Breve Noticia Geográfica e Histórica. R. Beltrán y Rozpide, 471*; Meteorological Interest of a Voyage in. R. DeC. Ward, 551*; Natural Riches and Industries, *rev.*, 374; Notable Brazilian Diamond. C. A. Deiby, 551*; Railroad Around the Upper Madeira, 48; Routenaufnahme von Dr. E. Snethlage vom Xingú zum Tapajoz. M. Mayr, 870*; Rubber Industry in, 287; Sugar in, 551*; Thousand Miles in a Dug-Out: Narrative of Investigation . . . Indians of Central Brazil. F. C. Glass, *n.*, 925; A Visit to the Coffee Country. R. DeC. Ward, 230*; In den Wildnissen Brasiliens. Bericht und Ergebnisse der Leipziger Araguaya-Expedition 1908. F. Krause, *rev.*, 779 ¶ Maps of Brazil: Captaincy of S. Vicente in 1553, 320*; Map accompanying "Along the Andes and down the Amazon," 317*; Iriri-Curuá-Jamachin. E. Snethlage & M. Mayr, *n.*, 717; Mappa dos Estados do Ceará, Rio Grande do Norte e Parahyba com parte dos estados limitrophes pelo Serviço Geol. e Mineral. do Brasil, *n.*, 476; De Rio Negro à Bogotá. Itinéraire de Hamilton Rice, 317*; Seven facsimile maps of places figuring in Brazilian history, 320*; Völkerkarte des Gebietes am oberen Rio Negro und Yapurá mit besonderer Berücksichtigung der Aruakstämme. T. Koch-Grünberg, 78*
- Breckenridge District, Col., Geology and Ore Deposits of. F. L. Ransome, 470*
- Breconshire (Cambridge County Geographies). C. H. Evans, 709*
- Breker, C. S., 630*
- Bremen: Jahrbuch . . . Zur Statistik des Schiffs- und Warenverkehrs, 1910, 233*; 1911, 633*
- Brennecke, W., 152*
- Breaner Pass: ¶ Zur Entwicklungsgeschichte der Brennergegend. J. Sölch, 874*
- Brentnall, H. C. and C. C. Carter, 926*
- Breton, 941*
- Briart, P., 148*
- Brice, G., 941*
- Briffaut, C., 866*
- Briggs, J., 941*
- Brigham, A. P., 152* Personal 370
- Bright, C., 152*
- Britain: See under Great Britain.
- British Association, Meteorology at the, 235*
- British Columbia: ¶ Development in Western Canada, 450; Economic Prospects of New —. F. A. Talbot, 167; Future of New British Columbia. F. A. Talbot, 147*; Geology and Ore Deposits of Phoenix Boundary District. O. E. LeRoy, 930*; New Diamond Locality in Tulameen Dist. C. Camsell, 147*; The New Garden of Canada. F. A. Talbot, *n.*, 372; Prince Rupert, 550*; Studying Big Game, 609; Year Book of—and Manual of Provincial Information, 1911. R. E. Gosnell, *n.*, 624 ¶ Maps of British Columbia: Map of New — showing Line of Grand Trunk Pacific R. R. and F. A. Talbot's Route from Wolf Creek to Prince Rupert, 399*; Tongue of Sir Sandford Glacier showing position of stones for determining ice flow. H. Palmer, *n.*, 878; Vancouver Island and adjacent Islands, *n.*, 797
- British East Africa: See under Africa.
- British Empire: ¶ Britain on and Beyond the Sea. C. H. Crofts, *n.*, 227; British Cotton Growing. J. H. Reed, 234*; Historical Geography of the British Empire. Vol. v. J. D. Rogers, *rev.*, 55; Imperial Telegraphs. C. Bright, 152*; Küstenverteidigung des Britischen Weltreichs. W. Stavenhagen, 713*; Mapping by the British Ordnance Survey, 854; Products of the Empire. Rubber. E. Salmon, 875* ¶ Maps: British Empire. Four School Wall Maps, *n.*, 720
- British Guiana: See under Guiana.
- British Isles: See under United Kingdom.
- British Museum. Its History and Treasures. H. C. Shelley, *n.*, 144
- British Post Office, History of the. J. C. Hemmeon, *n.*, 548
- Brittany. ¶ Cook's Tourists' Handbook for — and Normandy, 68*; Cornwall and Brittany. T. Hodgkin, 233*
- Brives, A., 552*
- Broadalbin Quadr., Fulton-Saratoga Counties, N. Y., Geology of the. W. J. Miller, 868*
- Broadway: ¶ The Greatest Street in the World. Story of — Old and New, from Bowling Green to Albany. S. Jenkins, *rev.*, 533
- Brode, H., 132
- Broek, A. J. P. van den, 150*
- Brooks, A. H., 53, 549*, 927*
- Brotterode, Das Glimmerschiefergebiet von, (Map), 639*
- Brown, A. R., 793*

- Brown, J. H., 941*
 Brown, J. M., 794*
 Brown, J. R., 548*
 Brown, M. W., 626*
 Brown, R., 787*
 Brown, R. G., 712*
 Brown, R. M., 645, Personal, 291
 Brown, R. N. R., 555*
 Brown, S. G., 315*
 Brown, W. C. and P. H. Johnson, 309*
 Browne, C. M., 232*
 Browne, E. C., 941*
 Bruce, R. I., 941*
 Bruce, W. S., 523, 794*, 795*; Bruce's Spitzbergen Expedition, 775
 Bruch, C. See Outes, F. F.
 Brückner, E., 876*
 Bruel, G., 932*
 Brun, W. v., 867*
 Bryant, F. L. See Arey, A. L.
 Bryant's, (H. G.), Expedition to Labrador, 849
 Bryce, G., 311*
 Bryce, J., 919
 Buber, L., 228*
 Buchanan, J. Y., 635*, 875
 Bucharest, Map: ¶ Planul Orasului Bucuresti, n., 799
 Büchler, M., 931*
 Buckbee, A. See Monroe, W. S.
 Buckinghamshire. A. M. Davis, 626*
 Budapest: Monatshefte des Budapesters Communal-Statist. Bureaus, 1910, 151*
 Buddhist Countries: Foë Kouë ki ou Relation des Royaumes Bouddhiques (transl. from the Chinese). A. Rémusat, 946*
 Buduma, The—of Lake Chad. P. A. Talbot, 711*
 Bues, C., 552*
 Bugey, Jura méridional: Étude de géographie physique spécialement adaptée au. J. B. Martin, 394*
 Bulgaria: ¶ Die Bulgaren. A. Strausz, 947*; La Bulgarie. Le pays, son peuple, etc. S. Jolly, 395*; Bulgarien und Ost Rumelien. S. Gopčević, 943*; Educational Statistics in, 1907-8, 151*; Mouvement de la population pendant l'année 1906, 314*; Situation économique de la, 151*; Statistique agricole, 1909, 395* ¶ Maps of Bulgaria: Bevölkerungsdichte. C. Kaschner, n., 80; Schauplatz eines zukünftigen türkisch-bulgarischen konfliktes, n., 239
 Bulletin de la Société d'Anthropologie de Paris, 1860-1905, 941*
 Bundschuh, J. R., 941*
 Burchard, E. F., 629*
 Burchard, O., 692
 Burketsund, Queensland, Mineral Field in. L. C. Ball, 394*
 Burlington, Vt., Flora of—and Vicinity. N. F. Flynn, 391*
 Burma: ¶ Burma. Handbook of Practical Information. Sir J. George Scott, rev., 303; Burma the Cinderella. J. G. Scott, 393*; Burmese Self-Taught. R. F. St. A. St. John, rev., 66; The Coming of the Great Queen. Narrative of Acquisition of Burma. E. C. Browne, 941*; History of. Sir A. Phayre, 946*; Through India and Burmah with Pen and Brush. A. H. Fisher, rev., 922; The Tamans of Upper Chindwin. R. G. Brown, 712*; Völkerkundliche Notizen aus Oberbirma. Die Maring. L. Scherman, 712* ¶ Maps of Burma: Der letzte Teil des Reisewegs . . . ermordeten Dr. Brunhuber und K. Schmitz, n., 238; Sketch Map of Burma-China frontier, n., 559; Upper and Lower Burma, n., 79
 Burnett, C. S., 559*
 Burnett, F., 540
 Burns, F., 927*
 Burr, G. L., 627*
 Burrard, S. G., 555*, 844
 Burtt-Davy, J., 632*
 Busch, P., 234*
 Bushmen: ¶ Über die Kunst der Buschmänner. R. Pösch, 931*; Reisen in Innern Südafrikas zum Studium der Buschmänner in den Jahren 1917 bis 1909, R. Pösch, 931*; Specimens of Bushman Folklore. Collected by W. H. I. Bleek and L. C. Lloyd, rev., 534
 Busk, H. G., 228*
 Butte, Mont: ¶ Why is Butte? A. N. Winchell, 70* ¶ Map: Geologic Map of Region surrounding the Butte District, 796*
 Butts, C. T., Dale, N. and Others, 310*
 Buzzards Bay, Chart, 236*
 Byzantine Empire: ¶ Geschichte der Byzantiner und des Osmanischen Reiches. G. F. Hertzberg, 943*; History of — and Greek Empires from 716 to 1453. G. Finley, 942*
 C
 Cabaton, A., 217
 Cabeza de Vaca, Alvar Nuñez, The Journal of. F. Bandelier, 940*
 Cables: See under Telegraphy.
 Cabot, W. B., 311*, 531
 Cacao: ¶ Cacao of the World, 396*

- Wereldproductie, — verbruik en voorraden van—1910, 152*; Welternte und Weltverbrauch von Kakao, 1910, 396*; World's Production and Consumption of, 396*
- Cactus, Influence of Low Temperatures on the Distribution of the Giant. F. Shreve, 528
- Cadell, H. M., 795*
- Caen, Port de—et les mines de fer de Basse-Normandie. Y. Lemarec, 874*
- Cairo Oriental — City of "Arabian Nights." D. Sladen, n., 308
- Caitness, Vegetation of—considered in Relation to Geology. C. B. Cramp-ton, 714*
- Caix, R. de., 792*
- Cajamarquilla, The Dead City of. C. W. Currier, 870*
- Calabar et sa Mission. R. P. Lejeune, 553*
- Calabri, Maps: Carta Corografica della Provincia di Reggio, n., 719; La malaria in, 879*
- California: ¶ Agriculture, Farms, Live Stock, etc., Census 1910, 869*; White Wheats of. G. W. Shaw and A. J. Gaumnitz, 70*; Arc of Primary Triangulation. W. Bowie, 927*; Biennial Report of the Board of State Harbor Commissioners for 1908-1910, 929*; Discovery of Gold in. E. E. Dunbar, 942*; Bull. Cal. State Mining Bureau, showing Mineral Production for 1910, 470*; California under Spain and Mexico. 1535-1847. I. B. Richman, *rev.*, 371; — History and Romance. J. S. McGroarty, *rev.*, 777; Irrigation. Farms and Acreage Irrigated, Cost of Construction, etc., Census 1910, 929*; Mineral Production of —for Twenty-four Years, 311*; Pacific Coast in. W. B. Clapp, F. F. Henshaw and H. D. McGlashan, 927*; Phonetic Constituents of the Native Languages of. A. L. Kroeber, 69*; Population, Census 1910, 70*; Portolá Expedition of 1769-1770. Diary of M. Costanso. Edited by F. J. Teggart, 234*; — Diary of Vicente Vila. Edited by R. S. Rose, 315*; Results of Spirit Leveling in—1907 to 1910, Inclusive. R. B. Marshall, 69*; The Silva of —. W. L. Jepson, *rev.*, 613; Statistics of Manufactures, Census 1910, 929*; Surface Water Supply of—1909. W. B. Clapp and F. F. Henshaw, 469*; Gazetteer of Surface Waters of —. B. D. Wood, 929*; Ueber die Ursache der letzten grossen Erdbeben von Kalifornien und an der Kueste von Guerrero, Mexiko. E. Boese, 549*
- ¶ Maps of California: Biggs Quad., 556*; Bridgeport Quad., 398*; Browns Valley Quad., n., 397; Buena Vista Lake Quad., 933*; Butte City Quad., 556*; Clear Creek Quad., 556*; Coal-ing Quad., 933*; Dry Creek Quad., 877*; Gilsizer Quad., 74*; Gridley Quad., 556*; Grimes Quad., 75*; Hon-cut Quad., 556*; Ivanpah Quad., 877*; Keefers Quad., 877*; Landlow Quad., n., 397; McKittrick Quad., 877*; Mari-posa Quad., 933*; Meridian Quad., 556*; Mills Quad., 75*; Mt. God-dard Quad., 556*; Nelson Quad., 877*; Newhard Quad., 877*; Nord Quad., 934*; Oroville Quad., 877*; Ostrom Quad., 75*; Randsburg Quad., 556*; Sanborn Slough Quad., 556*; Singer Creek Quad., 877*; Sutter Quad., 75*; Tisdale Weir Quad., 556*; Eight Geologic Maps accompanying "Ter-tiary Gravels of Sierra Nevada," n., 75; Reconnaissance Geologic Map of Southern End of San Joaquin Valley, 557*; Top. Map of Sacramento Valley, n., 75; Yuba City Quad., 75*; Charts: Greenwood to Fort Bragg, Los Angeles Harbor, Monterey Bay, Santa Monica Bay, 236*; San Francisco to Point Arena, 796*
- California, Gulf of: Terderfeet on Tiburon. Trip that exploded the Old Myth of a Race of Bloodthirsty Can-nibals in the, etc. M. Williams, 147*
- California, Lower: ¶ La Baja Cali-fornia, un país desierto y seco. C. S. Breker, 630*
- Calkins, C. G., 392*
- Calkins, F. C. See Umpleby, J. B.
- Calldorf, Lippe, Umgebung der Sol-quellen von (Map), 560*
- Calvert, W. R. See Pepperberg, L. J.
- Calvin, S., 391*
- Cambage, R. H. See Maiden, J. H.
- Camel Cavalry: See Mehrarists.
- Cameroons: See Kamerun.
- Campbell, W., 941*
- Campton Oil Pool, Ky. M. J. Munn, 470*
- Camsell, C., 147*
- Caná, F. R., 312*
- Canada: ¶ Arctic Prairies. Canoe-Journey . . . Region North of Aylmer Lake. E. T. Seton, *rev.*, 295; Canada A. G. Bradley, *rev.*, 614; Canada's En-larged Provinces, 608; Die erweiter-ten Provinzen von Kanada. H. Wich-mann, 629* ¶ Canadian Rockies: As-

- cents in the. V. A. Fynn, 789*; Ascent of Mt. Sir Sandford. H. Palmer, 770* —: New and Old Trails. A. P. Coleman, *rev.*, 919; — north of Mount Robson. J. N. Collie, 629*; Cariboo Mountains. J. N. Collie, 205 ¶ Canadianization of Western. G. Bryce, 311*; Some Details of Mr. Stefánsson's Geographical Work, 660; Geographical Conditions Affecting the Development of. W. L. Grant, 147*; Glacial Great Lakes in. J. W. Goldthwait, 205; The Golden Land. Story of Present Day Occupation of the Great West. A. E. Copping, 389*; Growth of a New Canadian Town, 771; Lovell's Gazetteer of. Latest descriptions of cities, towns, etc., together with Newfoundland, *n.*, 142; Magnetic Observations, 1911. O. Klotz, 930*; Making of the Great Canadian R.R. F. A. Talbot, *rev.*, 211; Marine Biological Stations of. E. E. Prince, 311*; Observations on Glaciers in 1909. G. Vaux, Jr., 789*; Peeps at Many Lands. J. T. Bealby, 466*; H. V. Radford in Northern Canada, 46, 205, 608; Statistics of the Dominion of, 230*; The Tahltan Indians. G. T. Emmons, 929*; Tide Tables for the eastern Coasts of — 1912, 629*; — for 1913, 930*; — for the Pacific Coast of — 1912, including Fuca Strait, Strait of Georgia and Northern Coast, 550*; Methods of Investigation of Tides and Currents. W. B. Dawson, 311*; The United States-Canada Survey, 607, 769; Surveying the 141st Meridian. T. Riggs, Jr., 788* ¶ Economic: Canadian Coal Resources. D. B. Dowling 789*; Development in Western, 450; Mineral Production in 1911, 550*; Petroleum Industry of. N. L. Turner, 629*; Wheat-Growing in—, the U. S. and the Argentine. W. P. Rutter, *rev.*, 372; Development of Wheat Production. A. L. Bishop, 10; Hudson Bay Route: New Outlet for Canadian Wheat. A. L. Bishop, 550* ¶ Government Reports: Annual Report of Topographical Surveys Branch 1910-11, 789*; Prel. Report on Clay and Shale Deposits of the Western Provinces. H. Ries & J. Keele, 789*; Report on Immigration, 1911, 311*; Report on Hydrographic Surveys. W. J. Stewart, 629*; Summary Report Geol. Survey Branch Dept. of Mines, 1911, 930* ¶ Historical: British North America, 1763-1867. A. W. Tilby, *rev.*, 532; A Colony of Emigrés in Canada, 1798-1816. L. E. Textor, 930*; Der erste Kolonisationsversuch in Kanada (1541-1543). R. Häpke, 930*; History of the Dominion of. W. P. Greswell, 943*; Historical Geography of the British Colonies. Vol. V. J. D. Rogers, *rev.*, 55; Pioneers in Canada. Sir Harry Johnson, 389*; Les pionniers de l'Ouest canadien. M. de la Vérendrye. G. Dugas, 629*; Review of Historical Publications Relating to Canada, 1910-11, *n.*, 624 ¶ Place Names: Place-Names in Northern. J. White, 230*; Geographic Board of Canada, Decisions, 230*, 550*, 629*, 789*; Ninth Report of the — for 1910, 470*; Tenth Report, 1911, 789* ¶ Maps of Canada: Bacon's Excelsior Map of, *n.*, 720; Geological Sketch Map of Northern Islands, *n.*, 159; Gray's New Railway System Map, etc., *n.*, 155; Two Maps to illustrate "Climatic Limits of Wheat Cultivation, with Special Reference to North America," *n.*, 637; Northwest Territories: Plan of Churchill Harbour. Chart of York Roads. A. R. Gordon, 155*; North America. Sheet North K. 19: Boston, Intern. Map of the World, 934*; Part of Rocky Mountains North of Yellowhead Pass, *n.*, 558
- Canary Islands: ¶ Carácter de la Conquista y Colonización de las Islas Canarias. R. Torres Campos, 947*; Cinq années de séjour aux Iles Canaries. R. Verneau, 948*; Gomera, die Waldinsel der Kanaren. W. May, *n.*, 866
- Canstatt, O., 551*
- Canterbury, Post-Glacial Climate of. R. Speight, 234*
- Canto, J. P., 695
- Capart, J., 941*
- Cape Ann to Block Island with Georges Bank, Chart, 235*
- Cape Breton: Les Écossais du Cap-Breton. E. Bouchette, 311*
- Cape Cod Bay, Chart, 236*
- Cape of Good Hope, Province of the: History and Ethnography of Africa South of the Zambesi. Foundation of Cape Colony, etc. G. McCall Theal, *rev.*, 696; History and Ethnography of Africa South of the Zambesi. From the Settlement of the Portuguese 1505 to the Conquest of Cape Colony by the British 1795. G. M. Theal, *rev.*,

- 696; Du Cap au Lac Nyassa. E. Foà, 942*; Geology of Worcester, Robertson and Ashton Districts. R. H. Rastall, 933*; Notes on Ngamiland. A. G. Stigand, 711* ¶ Maps: Geological Map of. Sheet 19. Nieuwerust. A. W. Rogers, n., 717; Sheet 26. Dordrecht-Barkly East. A. L. Du Toit, n., 717; Ngamiland. Prismatic Compass Sketch Map of Routes between Tsau and Simati's Village. A. G. Stigand, 558*; Sketch Map showing position of Le Vaillant's Grotto, 156* Capps, S. R., 788*; See also Moffit, F. H.
- Capriles, A., 636*
- Caputo, Col. E., 451
- Cardonnel, A. de, 941*
- Cariboo Mountains. J. N. Collie, 205
- Carle, G., 149*
- Carletti, T., 227*
- Carnarvon, Earl of, 941*
- Carnarvonshire, Wales. J. E. Lloyd, 390*
- Carnegie Institution, Annual Report for 1911, 929*; Scope and Organization, 929*
- Carney, F., 146*, 153*, 291, 310*
- Carnier, K., 552*
- Carniola: ¶ Römische Strassen und Befestigungen in Krain. A. v. Premenstein and S. Rutar, 946*
- Caron, I., 470*
- Carpathians: ¶ Die glazialen Züge der Rodnaer Alpen und Marmaroscher Karpaten. L. R. v. Sawicki, 314*; In the Carpathians. L. Phillimore, n., 787
- Carpentaria, Expedition to the Gulf of. J. P. Thomson, 150*
- Carpenter, F. G., 227*
- Carr, J. F., 307
- Carrara und seine Marmorbrüche. F. Mielert, 151*
- Carrière, L., 239*, 315*
- Carruthers, D., 318*, 638*, 793*; Personal, 370
- Carter, C. C. See Brentnall, H. C.
- Carthage, Tunis, Kairouan and—. G. Petrie, 945*
- Cartography. See also Maps: ¶ Aelteres kartographisches Material in deutschen Bibliotheken. W. Ruge, 234*; Anleitung zur Kartenzeichnen. K. Kretschmer, *rev.*, 622; Bergzeichnung auf den älteren Karten. J. Röger, 626*; Emil von Sydow and the Development of German School Cartography, 846; Über Farbentheorien. J. G. Rothaug, 634*; Geeignete Kartenprojektion zur Darstellung der erdmagnetischen Elemente. H. Wehner, 240*; Aus der Geschichte der Kartographie. W. Wolkeahauer, 395*; Zur Geschichte der Gothaer Kartographie. H. Wagner, 555*; Index Diagram showing for France the Sheet Lines of the Air Map, 80*; Wie ich Karten lesen lernte. K. C. Rohde, 876*; Kartenkunde. A. Becker, 634*; Über neue Methoden zur Verfeinerung des geologischen Kartenbildes. O. Ampferer, 876*; Plane table in detailed geologic mapping. D. F. Higgins, 876*; Projection for International Map of the World, 634*; The Plane-Table in detailed Geologic Mapping. F. L. Ransome, 634*; Tables for the Projection of Graticules for Maps on the Scale of 1:1,000,000, 627* ¶ Cartographical Map: Neue geomorphologische Kartendarstellung einer Ideallandschaft. H. Gehne, n., 939
- Carver, T. N., 621
- Cary, John, Engraver and Map-Seller, 1769-1836. Sir Herbert G. Fordham, 293
- Casablanca: ¶ Notice économique et administrative. Commandant Dessaigny, 393* ¶ Map: Plan de Casablanca et de ses environs, 399*
- Casati, G., 941*
- Cascade Range: ¶ Avalanches and Forest Cover in the Northern Cascades. T. T. Munger, 928*
- Castle, W. E., 390*
- Catalogues. See also Bibliographies and Indexes: ¶ Catálogo de la Sección Antropológica del Museo de la Plata. R. Lehmann-Nitsche, 870*; Catalogue of flowering plants and ferns of Connecticut growing without Cultivation. C. B. Graves, E. H. Eames and Others, 710*; Descriptive Catalogues of Maps. Sir Herbert G. Fordham, 468*; List of Work relating to the West Indies, 870*; Orbis Latinus—Oder Verzeichniss der wichtigsten lateinischen Orts- und Ländernamen. J. G. Th. Graesse, 943*; Price List of Philippine Photographs for sale by the Bureau of Science, 873*
- Catazaro, Carta Corografia della Provincia di, n., 719
- Cateaux, A., 553*
- Catholic Encyclopedia, Vols. XII and XIII, 948*
- Catskill Aqueduct: ¶ Overcoming difficulties in building the new water supply system for New York City. J.

- F. Springer, 628*; Storm King Crossing of the Hudson R. J. F. Kemp, 683; — Water Supply for New York City. C. P. Berkey, 549*
- Cattaro, Sulla Morfologia delle Bocche di. L. de Sawicki, 795*
- Cattle: Tuberculosis Bovine. R. Bidart, 234*
- Cauca Valley, Colombia. V. F. Seawell, 551*
- Caucasus: ¶Around the Black Sea . . . Caucasus, etc. W. E. Curtis, 389*; Casuals in the —. A. Herbert, *n.*, 217; The—and its Monuments of Intellectual Culture. N. J. Marr, 874*; Neue Kaukasische Reisen und Studien. C. v. Hahn, 925*; De Zariut-Choch in der westlichen Kasbekgruppe. W. Fischer, 395*
- Cave, H. W., 941*
- Cavoleau, J. A., 941*
- Cayla, V., 790*
- Ceará. ¶Maps: Mappa do Estado do, *n.*, 476; Mappa dos Estados Ceará, Rio Grande do Norte e Parahyba com parte dos estados, etc., *n.*, 476
- Cebu: Fourteen Charts of Harbors in, 237*
- Celebes: ¶Die Sunda-Expedition des Vereins für geographie und Statistik zur Frankfurt am Main. Vol. I. J. Elbert, *rev.*, 923 ¶Map: Central Celebes showing Explorations of E. C. Abndanon, 1909-10, *n.*, 157
- Celtic Life and Art, Types of. F. R. M. Hitchcock, 943*
- Central America: See under America.
- Central Africa Protectorate: See Nyasaland.
- Century Dictionary and Cyclopædia, 1912, 948*
- Cépède, C., 396*
- Ceylon: ¶Ceylon in 1893. J. Ferguson, 942*; Einführung in die Tropenwelt. Erlebnisse, . . . eines Naturforschers auf Ceylon. K. Günther, *n.*, 467; Historical Relation of — together with somewhat concerning Several Remarkable passages of my life that hath hapned since my deliverance out of my Captivity [1681]. R. Knox, *rev.*, 380; Kautschuk und andere Produkte in Ceylon, 1911. C. Böhringer, 872*; Pearl Fisheries of. H. M. Smith, 712*; Report of Surveyor-General for 1910-11. R. S. Templeton, 712* ¶Maps of Ceylon: Map of —, *n.*, 158; A. New Map of the Kingdom of Candy Uda in, 400*
- Chad Lake: ¶Buduma of —. P. A. Talbot, 711*; Chad Lake. P. A. Talbot, 72*; New Tilho Mission to, 852
- Chad Territory: ¶Entre le Niger et le Tchad et à l'est et au Nord-est du. G. Garde, *rev.*, 780; La France au Tchad. L. Kieffer, 932*; Le territoire militaire du Tchad. Labatut, 631* Pacification et le délimitation du. A. Terrier, 932* ¶Map of Chad Territory: Route de la Bénoué au Tchad, 156*
- Chamberlain, A. F., 70*
- Chamberlain, J. F. & A. H., 309*
- Chamberlain, R. T., 473*
- Chamberlin, T. C., 315*
- Chandler, S. E. See Freeman, W. G.
- Chaouia ¶Chaouia Marocaine. A. G. P. Martin, 393*; Les Terres agricoles de la. Moreau, 792* A Traversa la—avec le Corps de Débarquement de Casablanca. Capt. Grasset, *rev.*, 376; ¶Map: La Chaouia. Capitaine Grasset, 399*
- Chapman, C. E., 396*
- Charcot, Dr. J., Personal, 118, 370
- Charles, B. B. See Olmstead, A. T.
- Charleston Harbor. Chart, 236*
- Charts: ¶Alte und neue Seekarten. M. Groll, 634*; Charts of the Atmosphere for Aeronauts and Aviators. A. L. Rotch and A. H. Palmer, *rev.*, 861; Portolan Charts, Their Origin and Characteristics, with Descriptive List of those belonging to the Hispanic Society of America. E. L. Stevenson, *rev.*, 545; Charts, U. S. Coast and Geodetic Survey, 236*, 796*
- Chauvin, V., 941*
- Chavanne, J., 941*
- Chekiang, Map of, 399*
- Cheltenham, Md., Results of Observations made at the Coast and Geod. Survey Magnetic Observatory at. D. L. Hazard, 1907-9, 69*; for 1909-10, 868*
- Chemin-Dupontès, P., 231*
- Chemulpo: ¶Chemurupo oder—, 394*
- Chesapeake Entrance, Va., Chart, 236*
- Chester R., Chesapeake Bay, Chart, 635*
- Chicago: ¶Chicago's Waterways in their Relation to Transportation. G. A. Zinn, 629*; Water Transportation between — and the Mississippi, 685
- Chickahominy R., Va., Chart, 236*
- Chicoutimi et Lac St-Jean. Le passé et le present. E. Rouillard, 70*
- Chiesi, G., 941*
- Chifu, Map: Das Hinterland von Tschifu. W. Anz, *n.*, 717

- Chignik Bay Region, Alaska, Map of. H. M. Eakin and W. W. Atwood, 154*; Chart: Anchorage and Mud Bays, 636*
- Chihuahua, Map of the State of. H. A. Horsfall, *n.*, 797, 935
- Chile: ¶ Anuario Estadístico de la Republica de — 1910, 790*; Anuario Estadístico, 1910. Movimiento Marítimo, 630*; Territorio, Población, Instrucción, etc., 630*; Estadística Comercial de . . . 1911, 790*; Anuario del Servicio Meteorológico de la Dirección del Territorio Marítimo, 231*; Chile in 1910, 148*; Chile. An Account of its Wealth and Progress. J. P. Canto, *rev.*, 695; — and her People of To-Day. N. O. Winter, 389*; The Climate of. R. C. Mossman, 231*, 551*; Cuarta Memoria . . . Oficina de Mensura de Tierras . . . 1911, 790*; Études anthropologiques au Chile. C. E. Porter, 231*; Zur geographischen und geologischen Landesaufnahme der Republik Chile. J. del C. Fuenzalida & H. Polakowski, 630*; History, Development, Natural Features, etc. G. F. S. Elliot, *rev.*, 57; Independence of. A. S. M. Chisholm, *n.*, 786; New Chilean Hist. and Geogr. Soc., 451; New Chilean Publication, [Economic], 851; Population of—1910, 771; A Society to Study the Folk Lore of, 367 ¶ Maps of Chile: Mapa de Chile. Centenary Edition, *n.*, 156
- China: ¶ Among the Tribes in Southwest China. S. R. Clarke, *rev.*, 135; Baukunst und Landschaft. E. Boerschmann, 793*; Le canal de Szeu-ngen. P. A. Lapicque, 872*; China in Distress. C. F. Gammon, 348; China und seine Entwicklung. G. Wegener, 872*; La Chine en miniature. Breton, 941*; La Chine moderne. E. Rottach, *n.*, 143; La Cina Contemporanea. G. de Luigi, *n.*, 787; China in Transformation. A. R. Colquhoun, *rev.*, 783; The Changing Chinese. Conflict of Oriental and Western Cultures. E. A. Ross, *rev.*, 136; The Chinese at Home or the Man of Tong and his Land. J. D. Ball, *rev.*, 783; The Coming China. J. K. Goodrich, *rev.*, 379; Chinese Frontiers of India. A. Rose, 712*; Dictionnaire bibliographique des ouvrages relatifs à l'Empire Chinois. H. Cordier, 942*; Dictionnaire des noms anciens et modernes des villes et arrondissements compris dans l'Empire Chinois. E. Biot, 940*; The Far East Revisited. Essays on Political, etc. Conditions in Malaya, China, Korea and Japan. A. G. Angier, 940*; La grande artère de la Chine. Le Yangtseu. J. Dautremere, *rev.*, 699; Half a Century in. A. E. Moule, *rev.*, 538; Lecture on. C. F. Gammon, 285*; Letters from the Far East. [China & Japan.] Sir C. Eliot, 942*; China. List of Lighthouses, Light-Vessels, Buoys, and Beacons on the Coast and Rivers of China, 1912, 553* Les palais impériaux de la Chine. G. Combaz, 941*; Present Conditions in. F. McCormick, 473*; Progress of India, Japan and China in the Century. Sir R. Temple, 947*; Religion in. Universism: A Key to the Study of Taoism and Confucianism. J. J. M. de Groot, *n.*, 926; Sépultures Impériales de la Chine. G. Combaz, 941*; Social and Economic Conditions, *rev.*, 782; Von Tsingtau nach Nanking. J. Schulze, 872*; From western China to the Golden Gate. R. Sprague, *rev.*, 137 ¶ Communications: Les grands courants commerciaux du Far-West chinois et notre chemin de fer du Yunnan. Dr. Legendre, 472*; Les postes en Chine. J. Simon, 553*; Report on Working of the Imperial Post Office, 1910, 232*; Situation des chemins de fer en Chine, 1911. J. Lapeyrière, 232* ¶ Economic and Commercial: Farmers of Forty Centuries, or, Permanent Agriculture in China, Korea and Japan. F. H. King, *rev.*, 360; Les soies dans l'extrême Orient et dans les colonies françaises. H. J. Corde-moy, 941*; China Maritime Customs. Special Series. Silk (1881), 941*; China. Commerce. Returns of Trade and Trade Reports, Port Trade Statistics and Reports, 1910, 72*, 232*; 1911, 872*; Abstracts of Statistics and Report on Foreign Trade, 1910, 72*, 1911, 872*, Analysis of—for 1910, 473*; Visit to China: Report of Commercial Commissioners . . . etc. Chambers of Commerce of the Pacific Coast, 1910, 313* ¶ Historical: L'Arrivée des Portugais en Chine. H. Cordier, 72*; Atlas Chinois. Being a Second Part of A Relation of Remarkable Passages in two Embassies from the East India Company . . . and to Emperor of China and East-Tartary, etc., etc. A. Montanus. Englished by J. Ogilby,

- (1671), 945*; Expédition de Chine de 1857-8. H. Cordier, 942*; Les Expéditions de Chine et de Cochin-Chine. Baron C. de Bazancourt, 940*; France et Chine. L'abbé O. Girard, 943*; Les premiers voyages français à la Chine. Cl. Madrolle, 944*; Foë Kouï Ki ou Relation des Royaumes Boudhiques. (transl. from the Chinese). A. Rémusat, 946*; Histoire générale de la Chine, ou annales de cet Empire traduites du Tong-kien-kang-mou. J. J. A. de Moyriac de Mailla. Suppl. Volume by l'abbé Grosier (1777-1783), 945*; Histoire géographique des Seize Royaumes. (transl. from the Chinese), and annotated by A. des Michels, 945*; Dell'Historia della China. (1590). J. Gonzalez de Mendoza, 945*; History of China. D. C. Boulger, 940*; Historical and Descriptive Account of China. H. Murray, 945*; Imperial History of China. J. Macgowan, 944*; An Old History of China, 553*; Letters. [On the Provinces of China. 1870-1872]. F. v. Richthofen, 946*; Narrative of an Expedition to. J. Bingham, 940*; Die Reise des Arabers Ibn Batûta durch Indien und China (14. Jahrhundert). Bearbeitet von H. v. Mûlik, 866*; Relaçam do Estado Politico e Espiritual do Imperio da China pellos annos de 1659 até o de 1666. P. F. Roquemont, (1672), 946*; Ruins of Desert Cathay. Personal Narrative . . . Westernmost China. A. Stein, *rev.*, 537 ¶Population: Das Ergebnis der zweiten allgemeinen Volkszählung in China nach Familien, 473*; Population de la Chine. C. E. Tnant, 632*; The 1910 Census of the Population. W. W. Rockhill, 668 ¶Maps of China: Aufstandsgebiete und europäische Interessen in China, *n.*, 238; Carte provisoire du Yangtsen Kiang, etc. Audemard, Chine, *n.*, 318; Chinese Empire, 318*; Compass Route Traverse between Hsi-ning Fu and Kan-chou Fu by O. R. Coales, *n.*, 478; Map showing itinerary of E. J. Dingle's travels, 1909-10, 79*; Sketch Map to illustrate paper on Chinese frontiers of India, *n.*, 559; Production Map of China, *n.*, 798; Sketch showing F. K. Ward's route through Lutzu country to Meakong, *n.*, 638; Sketch Map of Burma-China frontier, 559* Chisholm, A. S. M., 786* Chisholm, G. G., 74*, 397* Choisy, M. A., 941* Cholnoky, E. v., 475* Chorolque, Map: ¶Skizze der Umgebung des, 78* Choulot, Commandant de, 472* Chree, C., 626, 706 Chudeau, R., 871* — and Gautier, E. F., 696 Churchill Harbour, Plan of. A. R. Gordon, 155* Churchill, W., 60; —'s Polynesian Work, 853 Chusan: ¶Ein alter Plan der beiden Hauptstädte des Ehemaligen Königreiches Chusan. E. Simon, 632* Chute, J. C., 226*, 227* Cilvanet, C., 150* Cisneros, C. B., 552* Cities: ¶Quelques études de villes. Vienne-Grenoble-Dijon. L. Gallois, 873* Civilization, Origin of: ¶Die Kultur der Kulturlosen. Ein Blick in die Anfänge menschlicher Geistesbestätigung. K. Weule, *n.*, 868 Claiborne, J. H., 226* Claparède, Arthur de, *Obituary*, 210 Clapp, C. H., 929* Clapp, E. J., 467*, 860* Clapp, W. B. and F. F. Henshaw, 469*, 549*; — & H. D. McGlashan, 927* Clarence Strait, Charts, 236* Clark University's Work in Geography, 47 Clark, V. A. See True, A. C. Clark, W. B., 627*; — A. B. Bibbins and E. W. Berry, 627* Clarke, F. W., 315* Clarke, H. W., 941* Clarke, J. M., 70*, 927* Clarke, S. R., 135 Clay, Natural History of. A. B. Searle, 468* Clem, H. M., 469* Clemenceau, G., 455, 625 Clendennin, W. W. See Arey, A. L. Climate. See also Meteorology: ¶Climatic Control (Black's School Geography). L. C. W. Bonacina, *rev.*, 221; Frost Forecasting and Protection, 611; Gut und schlecht Wetter. R. Hennig, *rev.*, 68; Schneegrenze in verschiedenen Klimaten. V. Paschinger, 715*; Studies on Climate and Crops. The "Solar Constant" and the Variations of Atmospheric Temperature at Arequipa and some other Stations. H. Arctowski, 598, 745; Veränderungen des Klimas seit dem

- Maximum der letzten Eiszeit. E. v. Chohnoky, 475*; —. W. R. Eckhardt, 235*
 Climbs: See Mountaineering.
 Cline, M., and J. B. Knapp, 788*
 Clössner, J. See Linke, F.
 Coahuila, Map of the State of. H. A. Horsfall, *n.*, 935
 Coal: ¶ Formation of Coal Beds. J. J. Stevenson, 315*; Output of certain Minerals and Metals of the World, 234*; World's Coal Production in 1910, 122
 Coast and Geodetic Survey of the U. S.: ¶ Magnetic Observations made between 1910-11. R. L. Faris, 391*; Present Activities of the. O. H. Tittmann, 257; for Charts of the —, See under Charts.
 Coasts: ¶ Erosion sur le côtes anglaises. I. Assada, 875*; Les côtes de Provence. Notes de morphologie côtière. R. Blanchard, 314*; Royal Commission on Coast Erosion. J. S. Owens, 315*; Sand Strand Flora of the Marine Coasts. P. Olsson-Seffer, 315*
 Coates, W. H., 310*
 Cobb, C., 314*, 475*
 Cobham, C. D., 941*
 Cochín China. See also Indo-China, French: ¶ Consideration sur la situation économique de la Cochinchine après un demi siècle d'occupation. G. Gaillard, 232*; Les Expédition de Chine et du Cochine-Chine. Baron C. de Bazancourt, 940*
 Cockayne, L., 60. See also Speight, R.
 Cocoa: See Cacao.
 Coco-Nut Palm: ¶ Kultur der Kokospalme. H. Zeapernick, 152*
 Coffee Industry, 396*
 Cold Storage: ¶ L'industrie du froid dans ses rapports avec l'agriculture. Ripert, 715*
 Cole, G. A. J., 468*, 626, 795*
 Coleman, A. P., 789*, 919
 Collet, L. W., 315*, 715*
 Collie, G. L., 321, 687, 791*
 Collie, J. N., 205, 550*, 629*
 Collins' Triangulation of Teram Kangri. T. G. Longstaff, 872*
 Colombia: ¶ Die Apostol. Präfektur Chocó. W. M. Peitz, 630*; Colombia in 1910, 148*; Means of Communication in, 850; Trade for 1907, 930*; ¶ Map of Colombia: De Rio Negro à Bogotá. Itinéraire de Hamilton Rice, 317*
 Colorado: ¶ Agriculture, Census 1910, 311*; — as an Agricultural State. W. E. Pabor, 945*; — Front Range. A Study in Physiographic Presentation. W. M. Davis, 469*; — Geological Survey, 1908, 550*; Geology and Ore Deposits of Breckenridge District. F. L. Ransome, 470*; Geology of Grayback Mining District. H. B. Patton, C. E. Smith and Others, 869*; Guidebook to. E. Parsons, *n.*, 307; Irrigation. Farms and Acreage Irrigated, etc., Census 1910, 929*; The Main Tungsten Area of Boulder Co. R. D. George, 469*; Montezuma Mining District. H. B. Patton, 869*; Mica in Idaho, Colorado, etc. D. B. Sterrett, 928*; Occurrence and Origin of Nitrates in — Soils, some of their Effects, and what they Suggest. W. P. Headen, 391*; Population, Census 1910, 229*; Number of Inhabitants, etc.; Composition and Characteristics, 929*; Preliminary Report on Geology of the Monarch Mining District. R. D. Crawford, 627*; Quarternary Deposits in, 365; Results of Spirit Leveling, 1896 to 1910. R. B. Marshall, 146*; Water Supply of. C. W. Comstock, 627* ¶ Maps of Colorado. De Beque Oil Field, 75*; Creede and Vicinity, 556*; Engineer Mountain Quad. Areal Geology, Structure Sections, 153*; Montrose Quad., 398*; Mt. Jackson Quad., 398*; Geol. Map of Southern Portion of Lake City Quad., 124*; Top. Map of S. Portion of Lake City Quad. showing approximate locations of patented mining claims, 154*; Index Map of portion of — showing location of mining regions, 154*; Top. Map of Region around Lake San Cristobal, 154*
 Colorado R. Basin. W. B. Freeman and R. H. Bolster, 469*; Lower—Drainage Basin. W. B. Clapp and F. F. Henshaw, 469*
 Colquhoun, A. R., 783
 Columbia, District: See District of Columbia.
 Columbia R. Drainage Basin. J. C. Stevens and Others, 470*
 Combin, Der Grand-. A. Frank, 395*
 Commerce: ¶ Commerce of the World in 1910, 396*; Geschichte der Handlung und Schifffahrt der Alten. P. D. Huet, 943*; Les progrès du commerce international des denrées périssables. H. Hitier, 715*; Statistics of Commerce, 310*; System der Welthandelslehre. J. Hellauer, *n.*, 64

Commercial Geography: See under Geography.

Comstock, C. W., 627*

Conger, C. R., 941*

Confucianism and Taoism, A Key to the Study of. (Uniyersism.) J. J. M. de Groot, *n.*, 926

Congo: ¶Congo Life and Folklore. J. H. Weeks, *rev.*, 377

Belgian Congo: ¶Amélioration et le développement des cultures vivrières et industrielles ainsi que de l'élevage du gros et du petit bétail. Dr. Dryepont and E. de Wildeman, 312*; De Banana au Stanley-Pool 1887-1911. Col. Thys, 148*; Les Bapopoie. C. Delhaise-Arnould, 871*; Les Belges au Congo. Notices biographiques. E. Janssens and A. Cateaux, 553*; Les chemins de fer du bassin du Congo, 631*; — du Matadi au Stanley-Pool, 71*; Chemins de fer du Congo, 553*; Les communications par chemin de fer et par voie fluviale au Congo Belge. Ingénieur Goffin et M. Dryepont, 791*; Colonisation belge au Congo et l'initiative privée, 553*; On certain physical Characters of the Negroes of — and Nigeria. A. Keith, 931*; Produits végétaux. E. de Wildeman, 932*; Le Congo. A quoi il doit nous servir, etc. C. Morisseaux, 932*; D'croissance de la population et la polygamie. C. Delhaise, 553*; Exploration de rivière Lukuga. J. Schwetz, 932*; Les forces hydrauliques du bas Congo. R. Thys, 932*; Forces hydraulique, etc. A. J. Wauters, 871*; Future Rubber Industry, 231*; La houille blanche au Congo. [Water power between Matadi and Leopoldville]; 553*; Land and Peoples of the Kasai. M. W. Hilton-Simpson, *rev.*, 457; Mortality in the, 368; Notes on experimental cultivation of cacao, coffee and cotton, 312*; Organisation territoriale de la colonie, 932*; Le problème du lac Kisale. Capt. Mauritzen, 631*; Les produits exploitables. R. Vauthier, 871*; Régions voisines de la frontière orientale du Congo Belge du Tanganyka au Lac Albert. M. J. Maury, 870*; C. A. and A. E. H. Reid's Surveys in northern Congo basin, 631*; Survey of the Northeastern Boundary of the, 852; Der Tofoke. E. Torday, 553*; Mon Voyage au Continent Noir. E. Trivier, 947*; White Population of the, 852; Wireless Telegraphy in the, 369

¶Maps of Belgian Congo: Ethnographische Übersichtskarte des Nil-Kongo-Zwischengebietes. J. Czekanowski, *n.*, 238; Frontière Germano-Belge dans l'Afrique Orientale, *n.*, 317; Itimbiri R. and country between Welle and Aruwimi Rivers, *n.*, 156; Léopoldville, en 1889, en 1910, Stanley-Pool, 156*; Neue deutsch-belgische Grenze im Kiwu-Gebiet, 78*

French Congo: See French Equatorial Africa.

Congo River: ¶Comment s'est creusé le cours du Congo dans la région des chutes. A propos des rapides d'Yelala, 553*; Development of Steamship services on the, 148*; La Navigation du haut — et de ses affluents, 472

Congresses: ¶Compte-Rendu du Congrès tenu à Monaco . . . Commission Internationale d'aérostation. E. Masány, 315*; Congrès Internat. d'Anthropologie et d'Archéologie préhistoriques, 124; Eighteenth Internat. Congress of Americanists, 124, 772; Highway Engineering as presented at the Second International Road Congress, Brussels, 1910. A. H. Blanchard and H. B. Drowne, *rev.*, 621; Official Proceedings of Eighteenth National Irrigation Congress held at Pueblo, Col., 1910, 229*; Tenth Internat. Geographical Congress, 124, 370; Der 18. deutsche Geographentag in Innsbruck. E. Scheu, R. Reinhard and F. Jaeger, 874*; Die 18. Tagung des Deutschen Geographentages zu Innsbruck in der Pfingstwoche 1912. P. Langhans, 874*; The XIIth Intern. Congress of Geology, 691; Le XXXe Congrès National des Sociétés Françaises de Géographie, 314*

Connecticut: ¶Agriculture, Census 1910, 311*; Catalogue of flowering Plants and Ferns of—growing without Cultivation. C. B. Graves, E. H. Eames and Others, 710*; Financial History of—from 1789 to 1861. H. F. Walrath, 628*; Gabbros and associated Rocks at Preston. G. F. Loughlin, 628*; Granites of. T. N. Dale and H. E. Gregory, 469*; History of. Th. Dwight, Jr., 942*; Statistics of Manufactures Census 1910, 550*; Population, Census 1910, 147* ¶Maps of Connecticut: Preliminary Geologic and Economic Map of, *n.*, 557; Five Charts of North Shore of Long Island Sound, 236*

- Connecticut River: ¶—Drainage Basin. H. K. Barrows and Others, 310*;
 Charts of Connecticut R., 236*
 Connelly, W. E., 941*
 Conner, E. T. See Griffith, W.
 Connor, J. E., 712*
 Conrad, V., 394*
 Conservation: ¶Checking the Waste. A Study in —. M. H. Gregory, *rev.*, 924; Fisheries. An example of the Attitude Toward Resources. R. M. Keir, 582
 Constantin: ¶Annuaire de la Société Archéologique de la province de— 1853-62. Recueil des Notices et Mémoires de la Société Archéologique de la Province de — 1863-1896, 948*
 Costenson, G. de, 472*
 Continents: ¶Entstehung der Kontinente. A. Wegener, 715*
 Cook, F. A., 390*
 Cook's Tourists' Handbook for Normandy & Brittany, 68*
 Cooke, J., 152*
 Cookson, C. E., 711*
 Coolidge, A. C., 791*
 Coombe, F., 540
 Copper: ¶Output of Certain Minerals and Metals in the World, 234*
 Copping, A. E., 389*
 Coquimbo, Karte des südwestlichen Teiles der Provinz—in Chile, *n.*, 935
 Coral Reefs, Physical Conditions under which Paleozoic—were Formed. T. W. Vaughan, 235*
 Cordemoy, Dr. H. J. de, 941*
 Cordier, H., 72*, 942*
 Corea: See Korea.
 Cornwall and Brittany. T. Hodgkin, 233*
 Coropuna Mt., Ascent of. H. Bingham, 451
 Corrasion: ¶— by Gravity Streams with Application of Ice Flood Hypothesis. E. C. Andrews, 234*
 Corsi, A., 149*
 Corsica: ¶La Corse. V. E. Ardouin-Dumazet, 926*
 Cortese, E., 393*
 Cortesi, F., 792*
 Corthell, E. L., 551*
 Cortier, M., 149*, 231*
 Cosmogony: ¶Le ciel et l'Atmosphère. L. Houllévigue, *rev.*, 140
 Cossar, J., 474*
 Costanzo, M., 234*
 Costanzo, G. and Negro, C., 145*
 Costa Rica: ¶Anuario Estadístico, 1910, 471*; Resúmenes Estadísticos, 1883 á 1910, Comercio, Agricultura, etc., 930*; Costa Rica in 1910, 471*; Geological Notes on the Peninsula of Nicoya. J. Romanes, 789*; Geology of a Part of. J. Romanes, 789*; Kostarika. Beiträge zur Orographie und Hydrographie. H. F. Pittier, 789*; Society for Seismological Observation in, 850 ¶Map: Mapa de Costa Rica, *n.*, 797
 Costume, A manual of—as illustrated by Monumental Brasses. Druitt, 942*
 Cottes, A., 697
 Cotton, World's Consumption of — Trade, and Manufactures for selected countries, 396*
 Cotton, C. A., 794
 Cotton, Sir A. T., 942*
 Cousin, Commandant, 313*
 Covert, C. C. See Barrows, H. K.
 Cox, A. J., 232*
 Cox, G. H., 69*
 Cox, W. T., 927*; See also Price, O. W.
 Craig, E. H. C., 787*
 Craig, J. L., 71*, 78*, 148*, 235*, 711*, 792*, 870*
 Crampton, C. B., 714*
 Crampton, H. E., 471*, 790*
 Crandall, R., 227*
 Crater National Forest, etc. F. Burns, 927*
 Crater Lake, Transcontinental Excursion at. J. H. Cuntz, 769
 Crawford, R. D., 627*
 Creed, J. M., 793*
 Creighton, M., 942*
 Crete, The Sea-Kings of. J. Baikie, *rev.*, 382
 Crimea: ¶Crimea. E. N. Orłowska, 626*; Manners and Customs of the Crim Tartars. M. Holderness, 943*
 Crocker Land Expedition, 189, 288, 429, 917
 Crofts, C. H., 227*
 Croll, Dr., A Plea for —. (Glacial Phenomena.) J. R. Donald, 715*
 Crosby, W. W., 627*
 Cross, F. C., 926*
 Cross, W. See Schultz, A. R.
 Crow and Village Indians, Some Problems in the Ethnology of the. R. H. Lowie, 628*
 Crowell, B., and C. B. Murray, 56
 Crowfoot, W. J., and F. L. Griffith, 942*
 Cuba: ¶Boletín oficial de la Secretaría de Agricultura Comercio y Trabajo, 1911-12, 789*; Cuba and her People of To-Day. F. Lindsay, 307*; Cuba in 1910, 230*; Erzlagerstätten der Vereinigten Staaten . . . Cuba, usw.

- C. L. Henning, *rev.*, 613; Memoria de la Administracion del Presidente . . . Cuba Mayor Gen. José Miguel Gómez, 1910, *n.*, 786 ¶ Map: Map of Cuba prepared in War College Division, *n.*, 935
- Cufino, L., 933*
- Culbreth, D. M. R., 142*
- Cullum Medal, Award of the—to Dr. Charcot, 118
- Cumberland Valley, Relief Map of, *n.*, 155
- Cunaeus, Joan, Journal der Reis van den Gezant der O. I. Compagnie—naar Perzië in 1651-1652. Gehouden door Cornelis Speelman, 467*
- Cunningham, A. Botanical, Topographical and Geological Notes on some Routes of—. J. H. Maiden and R. H. Cambage, 150*
- Cuntz, J. H., 769
- Curaçao, Improvements in the Harbor of, 771
- Current Geographical Papers: See Geographical Papers, Current.
- Currents: See under Tides.
- Currier, C. W., 132, 870*
- Curschmann, F., 626*
- Curtin, J., 460
- Curtis, G. C., 291
- Curtis, W. E., 389*, 390*
- Cushing, S. W., 232*
- Cuzco: ¶ Contribución à la Geografía del Departamento del. F. L. Herrera, 552*; Discovery of Pre-Historic Remains near. H. Bingham, 552*; Geologic Relations of the Cuzco Remains. I. Bowman, 552*
- Cyprus: ¶ Excerpta Cypria. Materials for a History of Cyprus. Translated and Transcribed by C. D. Cobham, 941*; Cypern. Landesverhältnisse . . . politischer und wirtschaftlicher Beziehung. D. Trietsch, *n.*, 390
- Cyrenaica: ¶ Importanza delle vie carovaniere in — ed in Tripolitania. G. Pera, 632*; Tripolitania e Cirenaica. P. Vigoni, 632* ¶ Maps of Cyrenaica: Carta della Tripolitania e —. A. Dardano, *n.*, 238; Le Nuove Provincie Italiane, etc. A. Dardano, *n.*, 717
- Czekanowski, J., 238
- D
- Dachnowski, A., 927*
- Dahkotahs: ¶ Once Their Home, or Our Legacy from the. F. C. Holley, 943*
- Dahomey: ¶ Délimitation du — et du Togo, 931*; Le Dahomey, 940*
- Dailey, I. M., 641
- Dainelli, G., 308*
- Daireaux, G., 551*
- Dairen (Dalny). Manchuria's Great Southern Port, 49
- Dakar, Le port de: son rôle économique. J. Goulven, 932*
- Dalchow, O., 151*
- Dale, N. See Butts, C. T.
- Dale, T. N., 627*; — and H. E. Gregory, 469*
- Dall, W. H., G. M. Dawson, & W. Ogilvie, 942*
- Dalmatia: ¶ Pflanzenwelt Dalmatiens. L. Adamović, *n.*, 926; Die physisch-geographischen Verhältnisse. N. Krebs, 794* ¶ Map: Sketch of Neighborhood of Kerka Falls, *n.*, 80
- Dalrymple, A., 942*
- Daly Medal, Awarded to R. Amundsen, 364; 914
- Daly, R. A., 612
- Dampier (William), Pirate, Explorer, and Author. J. R. Spears, 234*
- Dan River, N. C., Coal on. R. W. Stone, 788*
- Daniels, H. K., 144*
- Dannenbaum, R., 874*
- Danube: ¶ Donau, Bulgarien und der Balkan. F. Kanitz, 944*
- Danube Region: ¶ Das Donauegebiet. W. Götz, 943*
- Dapper, O., 942*
- Darbishire, B. V., 720
- Dardanelles, Map: D'e Befestigung des westlichen Dardanellen-Eingangs. D. A. Janke, 480*
- Dardano, A., 238, 717
- Dar-es-Salaam: ¶ Dar: ssalam als Ausfuhrhafen, 231*
- Darsey, E. See Niox, G.
- Darss, Skizze der Entwicklung des (Map), 158*
- Darton, N. H., 710*
- Darwin, L., 716*
- Darwin, Sir George H., Personal, 370
- Dautremer, J., 699
- Dauzat, A., 634*
- Davidson, George, *Obituary*, 50, 51
- Davis, A., 1
- Davis, A. M., 626*
- Davis, A. P., 393*, 632*
- Davis, C. A., 629*
- Davis, H. W. C., 309*
- Davis, J. A., C. H. Wegemann and D. E. Winchester, 927*
- Davis Straits, Eskimos of—in 1656. D. MacRitchie, 875*
- Davis, W. M., 71*, 469*, 716*, 908, Personal, 612

- Davison, C., 626*
 Dawson, G. M. See Dall, W. H.
 Dawson, W. B., 311*, 396*, 555*
 Day, D. T., 629*
 Day, P. C., 856
 Dead Sea, Around the—by Motor Boat. J. E. Spafford, 393*
 Debrand, 312*
 Deeken, R., 233*
 Defant, A., 715*
 De Geer, G., 939
 De Geer, S., 554*
 De'ninger, J. W., 942*
 Deladrier, E., 148*
 Delagoa Directory; See Lourenço Marques.
 Delaware: ¶ Agriculture. Farms and Farm Property, Live Stock, etc., Census 1910, 147*; Narratives of Early, etc. A. C. Myers, 945*; Notes on the Clays of. G. C. Matson, 868*; Population, Census 1910, 147*
 Delaware Bay: ¶ Chart of Leased Oyster Bottoms, 237*
 Delaware R. Drainage Basin. H. K. Barrows and Others, 468*
 Delaware Valley, Archaeology of. E. Volk, 311*
 Delhaize-Arnould, C., 553*, 871*
 Delhi: ¶ Delhi and the Durbar. J. Finemore, 548*; Capitale de l'Empire des Indes, 553*; The New Capital of India, 208; Le transfert à — de la capitale, etc. C. E. Bonin, 553*
 Della Cella, P., 941*
 Deloncle, F., 394*
 Demanche, G., 152*
 Demange, Mgr., 873*
 Demangeon, A., 634*
 Demontès, V., 312*
 Deniker, J., 942*
 Denis, P., 148*
 Denmark: ¶ Der deutsch — dänische Krieg. W. Rüstow, 946*; Geschichte des Königreichs Dänemark. C. F. Allen, 939*
 Dennet, R. E., 149*
 Denucé, J., 220, 555*
 Denver: ¶ The 105th Meridian in— and Its Mile High Level. H. A. Howe, 469*
 Derby, O. A., 315*, 551*
 Dessigny, Commandant, 393*
 Desverges, N., 942*
 Deustua, R. A., 791*
 De Vos, R., 232*
 Dew, Measurements of, 612
 Dictionaries: ¶ Concise Oxford — of Current English. H. W. and F. G. Fowler, 548*; Dict. of Biloxi and Ofo Languages. J. O. Dorsey & J. R. Swanton, 549; Geogr.-Stat. Topograph. Lexicon von Franken. J. R. Bundschuh, 941*; Diccionario Geográfico del Uruguay. O. Araújo, 925*; Dictionnaire Bibliographique des Ouvrages Relatifs à l'Empire Chinois. H. Cordier, 942*; Meyers Grosses Konversation-Lexikon, 391*
 Diemer, W., 73*
 Diest, W. v., and Groll, 400*
 Dietrich, B., 394*
 Diguët, L., 869*
 Dijon, Vienne-Grenoble — Quelques études de villes. L. Gallois, 873*
 Diller, J. S., Larsen, E. S., & Others, 391*
 Dimeo, H. A., 610
 Dingle, E. J., Map showing —'s travels in the Chinese Empire, 1909-10, 79*
 Dirr, A., 874*
 Dismal Swamp of Virginia. A. Hollick, 927*
 Distel, L., 873*
 District of Columbia: ¶ Agriculture, Census 1910, 311*; Population, Census 1910, 929*
 Dixon, C. J., 942*
 Djibouti: ¶ Valeur économique des régions traversées par le chemin de fer de—à Addis Abbeba. E. de Felcourt, 931*
 Dobynin, B. See Lepeszyński, A.
 Dodge, R. E., 277, Personal, 291
 Dominican, L., 714*, 914*
 Dominican Republic: See Santo Domingo.
 Donald, J. R., 715*
 Dorsey, J. O. & Swanton, J. R., 549*
 Doucet, R., 791*
 Doughty, C. M., 370
 Douglas Fir, Properties and Uses of. M. Cline and J. B. Knapp, 788*
 Douglas, James, Journals and Reminiscences of. Edited by his Son, n., 225
 Dowling, D. B., 789*
 Dracopoli, I. N., 316*, 512; See also Lumholtz, C.
 Draper, D., 551*
 Dreher, O., 151
 Droogmans, H., 312*
 Drosendorf, Umgebungskarte von, n., 80
 Drowné, H. B. See Blanchard, A. H.
 Druitt, 942*
 Drure, J., 712*
 Druses of the Lebanon, Recollections of the. Earl of Carnarvon, 941*
 Dryepont, Dr., et Wildeman, E. de, 312*; See also Goffin.

- Dryer, C. R., 235*, 383
 Drygalski, E. von, 149*, 152*, 875*;
 Drygalskis Polarwerk "Zum Kontinent des eisigen Südens". H. Wagner, 152*
 Dubois, F., 212
 Duchesne-Fournet, Jean. Mission en Éthiopie (1901-1903). H. Froidevaux, O. Collat, and Others, *rev.*, 58
 Duckworth, W. L. H., 467
 Duclos, Lieut., 472*
 Dudley, C. R., 64
 Dudley, Earl of, 554*
 Dugas, G., 629*
 Duluth, Geographical Study of. E. Van Cleef, 401, 493
 Dumfriesshire. (Cambridge Co. Geog.) J. K. Hewison, 709*
 Dunbar, E. E., 942*
 Dunes: See Sand Dunes.
 Dunn, S. O., 703
 Dunstan, J., 233*
 Dupuy, E., 794*
 Duran, Fray Narciso, Diary of—Expedition on the Sacramento, etc. Edited by C. E. Chapman, 396*
 Durango, Map of the State of. H. A. Horsfall, *n.*, 935
 Durig, A., 394*
 Dutch East Indies: See East Indies, Dutch.
 Dutton, Major Clarence Edward, *Obituary*, 124
 Dwight, T., Jr., 942*
 Dyaks, Notes on the Sea — of Borneo. E. H. Gomes, 313*
 Dzungaria: ¶ Exploration in—and N. W. Mongolia. D. Carruthers, 793*;
 Aus den wiss. Ergebnissen der Merzbacherschen Tian-Schan-Expedition. Geol. Untersuchungen im Chalyktau, Temurlyktau, Dsungarischen Alatau. K. Leuchs, 553* ¶ Map: Sketch map to illustrate paper on Exploration in Mongolia and Dzungaria. D. Carruthers, 638*
 E
 Eakin, H. M., 154*, 788*
 Eames, E. H. See Graves, C. B.
 Earle, A. M., 708*
 Earth: ¶ Astronomische Erdkunde. O. Hartmann, *n.*, 228; Changeful Earth. Introduction to the Record of Rocks. G. A. J. Cole, 468*; Data of Geochemistry. F. W. Clarke, 315*; Earth Features and Their Meaning. Introduction to Geology. W. H. Hobbs, *rev.*, 384; Erdrelief und Tetraederhypothese. T. Arldt, 396*; La face de la Terre. Vol. 3, (transl.). E. Suess, *rev.*, 706; Forms of Terrestrial Relief, 94; Future Habitability of the. T. C. Chamberlin, 315*; Gliederung der Erdteile. P. Seyferth, 715*; On the Magnetic Field of the. L. Steiner, 715*; Notes on Defective Effect of Earth's Rotation as shown in Streams. C. Cobb, 475*; Physik der Erde. M. P. Rudzki, *rev.*, 222; A Propos de la forme de la Terre. P. Testard, 397*; Recent Progress in Geodesy. A. R. Hinks, 315*; La Terra (trattato popolare di geografia universale). G. Marinelli, 944*; Unsere Kenntnis der Erde. L. Carrière, 315*; Unser Wissen von der Erde. A. Kirchhoff, 944*; Vergleichende Mond- und Erdkunde. S. Günther, *rev.*, 707; Der Wasservorrat unserer Erde. W. Halbfass, 475*; What is Terra Firma? Review of Current Research in Isostasy. B. Willis, 315*
 Earthquakes. See also Seismology: ¶ Baluchistan Earthquake of 21, Oct., 1909. A. M. Heron, 149*; Bericht über das Erdbeben in den Alpen vom 13. Juli 1910. J. Schorn, 875*; Earthquakes in Italy, 369; Elastic-Rebound Theory of. H. F. Reid, 315*; Erdbebenkatastrophen. E. Scheu, 235*; Geophysikalische Zusammenhänge und kulturelle Lehren der Erdkatastrophen Südtaliens und Siziliens. W. Krebs, 874*; The New Madrid Earthquake. M. L. Fuller, 203, 710*; Origin of Earthquakes. C. Davison, *n.*, 626; Ueber die Ursache der letzten grossen Erdbeben von Kalifornien und an der Kueste von Guerrero, Mexiko. E. Boese, 549* ¶ Map: Part of Jamaica showing the Relation of Earthquake damage to Erosion of Land, *n.*, 935
 East India Company: ¶ Court Minutes of the. Vol. 3. E. B. Sainsbury, 946*; Atlas Chinensis: Being a Second part of A Relation of Remarkable Passages in two Embassies from the . . . to Konchi Emperor of China, etc. A. Montanus. English'd by J. Ogilby, 945*; Trade of the— from 1709 to 1813. F. P. Robinson, *n.*, 310
 East Indies, The Old "Country Trade" of the. W. H. Coates, 310*
 East Indies, Dutch: Jaarverslag van den Topographischen Dienst in Nederlandsch-Indië over 1910, 712*; Java, Sumatra and Other Islands of

- the Dutch—. A. Cabaton, *rev.*, 217
 ¶ Maps of Dutch East Indies: Atoll-
 vormige Riffen, Barrière-Riffen en
 Atollen, etc., Overzichtskaartje aange-
 vende Barrière-Riffen en Atollen
 nabij, *n.*, 158
 Echigo, Preliminary Note on the Geo-
 logy of — Oil Field. T. Iki, 150*
 Eckert, M., 314*
 Eckhardt, W. R., 235*, 397*
 Eclipse, Solar—of April 17. Annular
 Eclipse observed near Chavenay. W.
 J. S. Lockyer, 716*; Results of Mag-
 netic Observations made by U. S.
 Coast and Geod. Survey at the Time
 of Solar Eclipse of April 28, 1911.
 O. H. Tittmann, 715*
 Economic Geography: See under Geog-
 raphy.
 Economics: ¶ Geology and. J. F. Kemp,
 152*; New Periodical on International
 Economics, 856; Principles of Rural
 Economics. T. N. Carver, *rev.*, 621
 Ecuador: ¶ Ecuador in 1910, 231*;
 Study of the Question of Boundaries
 between Peru and. V. Santamaria
 de Paredes, *rev.*, 857; Trip from
 Quito to the Napo R. E. H. Pound,
 870*
 Eddingfield, F. T. See Smith, W. W.
 Eddy, J. R., 549*
 Edinburgh: ¶— Revisited. J. Bone,
n., 701
 Edinburgh District: ¶ Explanatory
 Guide Book and Outline Catalogue.
 P. Geddes & F. C. Mears, 474*; Mid-
 lothian. A. McCallum, 626*; Notes
 on the Geography of the. J. Cossar,
 474* ¶ Maps of Edinburgh District:
 Density of Population, etc., 159*; Dis-
 tribution of Population, etc., 159*;
 Topography, Geology, Hydrography,
 159*; Borthwick dry valley, 159*;
 Esk near Polton, 159*; Mean Annual
 Rainfall, 159*
 Edmonton, Alberta. The City that
 Owns Itself. C. Love, 930*
 Edmundson, G., 144*
 Edson, Alberta, Rapid Growth of, 450
 Edwards, A., 374
 Edwards, F. A., 631*
 Egypt: ¶ Ausdehnung und Erträge der
 Baumwollkultur in Ägypten, 1895-
 1909, 631*; Notes on Cotton Statistics.
 J. I. Craig, 711*; Eastern Desert of. A.
 Wade, 631*; Denkmaeler aus Ägypten
 und Aethiopien. C. R. Lepsius,
 948*; L'Égypte actuelle, aperçus de
 géographie sociale et économique. E.
 Mercinier, 392*; Egypt Exploration
 Fund: General Index to the Archaeo-
 logical Reports, 1890 to 1909. W. L.
 Nash, 945*; Archaeological Report
 1910-11. E. L. Griffith, 711*; Egypt as
 Described by Great Writers. Collected
 by E. Singleton, *n.*, 786; Erwachende
 Agrarländer. S. Strakosch, *rev.*, 212;
 Études sur le folklore Bédouin de l'-
 Égypte. E. Klippel, 473*; Guide du
 Nil au Jourdain par le Sinai et Pétra.
 B. Meistermann, 68*; List of Maps
 and Plans published up to March,
 1910, 631*; List of Publications is-
 sued up to Dec. 1, 1909, Survey Dept.,
 631*; Meteorite of El Nakhla el
 Baharia. J. Ball, 792*; New Light on
 Ancient. Sir G. Maspero, 944* Nilen
 och dess betydelse för Egypten. V. E.
 Lillienberg, 312*; Die Nilländer. R.
 Hartmann, 943*; Primitive Art in.
 J. Capart, 941*; Principles and Ob-
 jects of Geology with special Refer-
 ence to the Geology of. W. F. Hume,
n., 390; Rainfall in Lower. J. I.
 Craig, 792*; Remaking of Egypt. Nile
 Irrigation Project. W. N. Sterns,
 631*; Survey of. H. G. Lyons, 368;
 Les Terrains alcalins en Égypte et
 leur traitement. V. M. Moasseri, 792*
 ¶ Maps of Egypt: Die neue Mariut-
 Eisenbahn von Alexandrien bis Mar-
 sa Matruh. G. Kaiser, *n.*, 477; Seven-
 teen Sheets of the Topographic Map
 of Egypt, *n.*, 879; Six Index Maps of
 Various Standard Maps of Survey
 Dept of Egypt, *n.*, 558
 Eider Region: ¶ Die Seen der Eiderge-
 bietes. G. Wegemann, 874* ¶ Maps:
 Übersichtskarte, des Eiderseengebietes,
n., 639; Die Seen des Eidergebietes.
 (10 maps). G. Wegemann, *n.*, 639
 Elba, A. Rühl, 634*
 Elbert, J., 923
 Eldridge, M. O. See Pennybacker, J.
 E., Jr.
 Elgon Mt., Ascent of, 452
 Eliot, Sir Charles, 942*
 Elliot, G. F. S., 57
 Elliott, R. S., 942*
 Ellis, G. W., 71
 Ellsworth, C. E. See Porter, E. A.
 El Mahasna, Predynastic Cemetery at.
 E. R. Ayrton and W. L. S. Loat, 940*
 El Nakhla el Baharia, The Meteorite
 of. J. Ball, 792*
 El-Tounsy, Ibn-Omar, 947*
 El Obeid, Railroad at, 119
 Emerson, F. V., 674, 761; Personal, 530
 Emin Pacha, Le Retour de, et l'Expédi-
 tion Stanley. (Dix Années en Équa-

- toria.) G. Casati, 941*; Emin Pasha's Unpublished Scientific Memoirs, 688
- Emmons, G. J., 549*
- Emmons, G. T., 315*, 929*
- Emmons, W. H. See Paige, S.
- Encyclopædias: ¶ The Catholic Encyclopædia. Vols. XII and XIII, 948*; Century Dictionary and Cyclopædia, 1512, 943*; — of Religion and Ethics. J. Hastings, 948*; Geography in the Encyclopædia Britannica. A. J. H[erbertson], 74*; Negro Year Book and Annual —, 1912, 787*
- Engell, M. C., 71*, 476*
- Engeln, O. D. von, 469*; Personal, 612
- England: See also Great Britain and United Kingdom: ¶ An Itinerary of the Sixteenth Century. La Guide des Chemins d'Angleterre. [1579]. H. G. Fordham, 716*; Sketch of English Life and Character. M. E. Mitford, n., 138; Variations in the English Climate during thirty years, 1881-1910. W. Marriott, 234* ¶ Maps: England and Wales, Annual Rainfall, 319*; Pratt's Road Atlas of, n., 800; School Atlas of English History, n., 800
- Engler, A., 920
- Equinoctial Storms, Are There? — J. H. Morrison, n., 709
- Erie Canal. C. T. Macfarlane, 628*
- Eritrea: ¶ Cartografia Coloniale. A. Mori, 471*; Lungo l'Anseba e sull'altipiano abissino. G. Dainelli, n., 308; Railroad in Eritrea, 48 ¶ Maps of Eritrea: Carta dimostrativa della Colonia — e delle Regioni adiacenti, n., 156; Index Maps of Eritrea, n., 156
- Erithraean Sea, The Periplus of the. Travel and Trade in the Indian Ocean by a Merchant of the First Century. Transl. from the Greek and Annotated by W. H. Schoff, *rev.*, 224
- Erkes, H., 152*; H. & E., 74*
- Erosion: ¶ Über die Abtragung durch Wasser, Temperaturgesetze und Wind, ihren Verlauf und ihre Endformen. S. Passarge, 715*
- Erskine, C. F., 397*
- Erskine, J. K., 231*
- Eskimos: ¶ Among the — of Labrador. S. K. Hutton, n., 624; — of Davis Straits in 1656. D. MacRitchie, 875*; Chez les Esquimaux du Keewatin. R. P. A. Turquetil, 930*
- Estancia Valley, N. M.: ¶ Geology and Water Resources of — with notes on ground-water Conditions in Adjacent parts of Central. O. E. Meinzer, 311*
- Etheridge Goldfields, The Oaks and the Eastern Portion of. E. O. Marks, 394*
- Ethiopia: ¶ Denkmäler aus Aegypten und Aethiopien. C. R. Lepsius, 948*; Man and Beast in Eastern Ethiopia. J. Bland-Sutton, *rev.*, 535
- Ethnogeography: See Under Geography.
- Ethnological Analysis of Culture. W. H. R. Rivers, 234*
- Eucla Plateau, Results of Boring for Artesian Water on the. A. G. Maitland, 473*
- Euphrates Valley, Memoir on the — route to India. W. P. Anderson, 939*
- Eurasia: ¶ Ausbreitung kalter Luft in Russland und Nordasien. H. v. Ficker, 73*
- Europe: ¶ Alpine Plants of — together with cultural hints. H. S. Thompson, 143*; Altweibersommer die Wärmerrückfälle des Herbstes in Mitteleuropa. A. Lehmann, 554*; Canaux de l'Europe Centrale, 713*; Cliff Castles and Cave Dwellings of. S. Baring-Gould, *rev.*, 383; Complete Pocket-Guide to Europe. E. C. Stedman, n., 68; Einige Ergebnisse entwicklungsgeschichtlicher Studien an europäischen Flachlandsküsten und ihren Dünen. G. Braun, 314*, 873*; L'Europe, La France. F. Schrader and L. Gaillouédec, 309*; — A supplementary Geography. J. F. Chamberlain and A. H. Chamberlain, 309*; — and the Mediterranean Region. J. B. Reynolds, n., 63; Europa's Childhood and Growth. A. J. Berry, n., 625; History of the Moorish Empire in. S. P. Scott, 946*; Medieval Europe. H. W. C. Davis, n., 309; Les Races de l'Europe-La taille en Europe. J. Deniker, 942*; Richesse et l'avenir de. L. F. Viala, 233*; Die Slaven. Ein Urvolk Europas. M. Zumkovič, *rev.*, 305; Student's Handbook of Stratigraphical Geology. A. J. Jukes-Browne, *rev.*, 863; Statistiques des Pêches maritimes des pays du Nord. H. M. Kyle, 73*; Südwesteuropäische Megalithkultur und ihre Beziehungen zum Orient. G. Wilke, 228*; Transportation in. L. G. McPherson, *rev.*, 785; Das vorgeschichtliche Europa, Kulturen und Völker. H. Hahne, n., 62 ¶ Maps of Europe: Blatteinteilung der Übersichtskarte von Mitteleuropa, n., 479; Countries and Seas discovered by Norwegians and Icelanders, 160*; Europe. E. Banse, n., 240; Karte der

- Häufigkeit der Schwankungen um den Frostpunkt. P. Schröder, 719*; Two maps of west-central Europe: Principal Settlement Areas of the Beaker People; Distribution of Gold Lunulae of the Early Bronze Age, 938*; Philips' Comparative Series of Wall Atlases: Europe, *n.*, 640; Das skandinavische Senkungsgebiet mit Randhebungszentren. G. De Geer, *n.*, 939; Übersicht der Arbeiten an der neuen Übersichtskarte von Europa, *n.*, 479; Uebersichtsblatt zur topographischen Specialkarte von Mittel-Europa, *n.*, 479; Western Europe. Outlines for Weather Map. B. V. Darbishire, *n.*, 720
- Evans, C. H., 709*
- Evans, G. W., 927*
- Evans, H. A., 390*
- Everglades: ¶ — and other Essays Relating to southern Florida. J. Gifford, *n.*, 547; Truck Farming in the. W. Waldin, *n.*, 547
- Ewart, A. C., 930*
- Exner, F. M., 397*
- Exploration, Airship in. H. Hergesell, 125
- Explorers: ¶ Les Explorateurs. P. Foncin, *n.*, 145; On the Personal Characteristics of the Great Explorers. L. Darwin, 716*
- Eydoux, D., 874*
- Eyles, F., 711*
- F
- Fages, Pedro, Diary of. Expedition to San Francisco Bay in 1770. Edited by H. E. Bolton, 69*
- Fairchild, D., 234*
- Falkner's Curieuse Nachricht von Pennsylvania. A Reprint of the Edition of 1702, amplified, etc., by J. F. Sachse, 946*
- Falconer, J. D., 458, 466*, 932*
- Falkenstein, J., 942*
- Falkland Islands. W. L. Allardyce, 148*; Whaling in, 526 ¶ Map of, 156*
- Fallex, M. See Niox, G.
- Fall River, Mass., History of. H. M. Fenner, *n.*, 226
- Faria, R. L., 152*, 391*, 469*
- Faroe Island, Map: ¶ Die Faeröer. Nach den Vermessungen des dänischen Generalstabs, 479*
- Fashoda: ¶ Fachoda. Le partage de l'Afrique. G. Hanotaux, *rev.*, 133
- Fassig, O. L., 230*, 771; Personal, 370
- Faucher, F., 871*
- Fauchère, Inspecteur, 231*
- Fawcett, W., and A. B. Rendle, 392*
- Fay, C. E., 44*
- Fayette Gas Field, Ala. M. J. Munn, 869* ¶ Two Maps, 557*
- Fehlinger, H., 396*
- Felcourt, E. de, 931*
- Fenneman, N. M., Personal, 291
- Fenner, H. M., 226*
- Ferguson, H. G., 554*
- Ferguson, J., 942*
- Fernald, M. L., 550*
- Ferry, R., 471*
- Fewkes, J. W., 69; —, Hrdlička, A. and Others, 710*
- Fez: ¶ Insurrection des tribus de la région de. H. Gaillard, 312*; Fez. Capt. Schneider, 393*; Vers Fez. J. Lavoix, 792*
- Ficker, H. v., 73*, 795*
- Fiegel, M. D., 307*
- Filchner, W., 555*
- Finlay, G., 942*
- Finnemore, J., 548*
- Finnland: ¶ Hydrographie und Meteorologie Finnlands und der benachbarten Meere. J. Petersen, 714*; Die nördliche Steinzeitkultur in Finnland, Norwegen und Schweden. A. M. Hansen, 554*
- Fippin, E. O., 555*, 710*
- Fir, Douglas—. Properties and Uses of. M. Cline and J. B. Knapp, 788*
- Fisch, R., 308*
- Fischer, F., 932*
- Fischer, H., 312*; — and Geistbeck, M., 879
- Fischer, P. D., 634*
- Fischer, W., 395*
- Fisher, E. J., 547
- Fisher, W. L., 549*
- Fisheries. An Example of the Attitude Toward Resources. R. M. Keir, 582
- Fitzgerald, J. E., 942*
- Fitzsimons, F. W., 143*
- Flammarion, C., 235*
- Fleming, J. A., 152*
- Fletcher, A. C. and La Flesche, F., 69*, 77*
- Fletcher, F. W. F., 625
- Fletcher, R. S., 308*
- Fleury, E., 795*
- Flora: See Plants.
- Florence, Maps: ¶ Florence in her Elements, 400*; Trade Routes leading to, 400*
- Florida: ¶ Agriculture. Farms, Live Stock, etc., Census 1910, 869*; Everglades and Other Essays Relating to southern. J. Gifford, *n.*, 547; Expedi-

- tion to the Everglades of — by J. W. Harshberger, 449; Truck Farming in the Everglades. W. Waldin, *n.*, 547; Les Français au Brésil et en Floride (1530-1568). E. Guénin, 308*; Lands of León. J. H. Reese, 229*; Preliminary Report on Peat Deposits of. R. M. Harper, 710*; Population, Census 1910, 229*; Production of Phosphate Rock during 1911. E. H. Sellards, 869*; Results of Spirit Leveling, 1911. R. B. Marshall, 788*; Statistics of Manufactures, Census 1910, 550*
 ¶ Maps: State of Florida, *n.*, 796; Charts: Sand Key to Rebecca Shoal, 796*; Sapels Is. to Amelia Is., 236*
 Florida Keys, Completion of the Railroad across the. R. M. Harper, 90; *Erratum*, 521
 Flynn, N. F., 391*
 Foà, E., 942*
 Föhn: See under Winds.
 Follansbee, R., 710*
 Foncin, P., 145*
 Fontainebleau, L'érosion des grès de. E. A. Martel, 474*
 Forbes, R. H., 710*
 Forch, C. & P. Zanetti, 706
 Fordham, Sir Herbert G., 293, 468*, 716*, 875*
 Forests: ¶ Zur Anthropogeographie des Waldes. R. Marek, 876*; Effects of — upon Stream Flow, 607; Forest Physiography . . . Principles of Soils in Relation to Forestry. I. Bowman, *rev.*, 127; — and Utilization of Land. F. Roth, 74*; Principles of Handling Woodlands. H. S. Graves, *rev.*, 622; — Resources of the World. R. Zon, 876*
 Formosa: ¶ Formosa under the Dutch. W. Campbell, 941*; Japanese Administration in. G. W. Mackay, 72*; Materials for a Flora of. B. Hayata, 232*; Report on the Control of the Aborigines in, *rev.*, 921; Special Population Census of, 1905, *rev.*, 59 ¶ Maps of Formosa: Taiwan, *n.*, 318
 Forrest, G. W., 942*
 Fort Berthold Indian Reservation, N. D., Lignite in the—north of Missouri River. M. A. Pishel, 928*
 Fort-de-l'Elcluse (Ain), Le défilé de. Contributions à l'histoire de la vallée du Rhône à l'époque pléistocène. W. Kilian, 474*
 Fortescue, G., 230*, 392*
 Fort George, Canada, Growth of, 771
 Forth, The Story of the. H. M. Cadell, 795*
 Foster, J. H. See Hodson, E. R.
 Foster, W., 866*
 Fougères, G., 68*
 Fouladou, Le. (Senegal). R. Legrand, 931*
 Foureau, F., 942*
 Fournier, E., 314*
 Fouta-Djallon, Un séjour au. F. Pobéguin, 932*
 Fowle, F. E., 635*
 Fowler, A. T., 76*
 Fowler, F. G., and H. W., 548*
 Fowler, H. W., 548*
 Fowler, J. S., and W. Marriott, 862
 Fowler, W. W., 467*
 Foxburg Quadrangle, Penn., Coal, Oil, and Gas of the. E. W. Shaw and M. J. Munn, 311* ¶ Geol. Maps, 878*
 Fox Indians, Notes on the. W. Jones, 549*
 France: ¶ Essai politique sur le revenu public des peuples de l'antiquité, . . . siècles modernes, et spécialement de la France, etc. Ch. Ganith, 942*; La France. (Text-book). F. Schrader et L. Gallouédec, 309*; France et Chine. L'abbé O. Girard, 943*; Die französischen Handelshäfen. A. Opper, 713*; Géographie ancienne historique et comparée des Gaules cisalpine et transalpine. Baron Walckenaer, 948*; La Géographie en France. F. Kraentzel, 474*; Le XXXe Congrès National des Soc. Franç. de Géog., 314*; Notes prélim. sur les gisements de mollusques comestibles des côtes de —. Les Anses de la côte occidentale du Finistère et l'archipel de Sein. J. Guérin-Ganivet, 713*; Service des grandes forces hydrauliques dans la région des Alpes, 633*; Terres Françaises. W. M. Fullerton, 942* ¶ Maps of France: Atlas classique. France et Colonies. Cartes géologiques, physiques, hypsométriques et politiques. Schrader et Gallouédec, *n.*, 800; Carte aéronautique, *n.*, 158; Carte des glaciers du Mulinet, etc., — du glacier de l'Arc. P. Girardin, 319*; Index Diagram Showing for France the Sheet Lines of the Air Map, 80*; Cartes des gisements de coquilles comestibles de la partie de la côte de la Manche entre Havre de St. Germain et l'Anse de Vauville; — entre l'Anse de Vauville et Saint-Vaast. L. Joubin, *n.*, 560 ¶ French Colonies: Les chemins de fer coloniaux français. R. Godfernaux, *rev.*, 862; Recueil des Traités conclus par la France en Ex-

- trême-Orient (1684-1902). L. de Reinach, 390*; Les soies dans l'extrême Orient et dans les colonies françaises. H. J. de Cordemoy, 941*; Statistiques des chemins de fer des colonies françaises jusqu'à l'année 1910, 395*
- Franche Conté, Bourgogne, Narbonnaise: W. M. Fullerton, 942*
- Francis, H. N., 210
- Franck, H. A., 61
- Franconia: ¶Geographisches Statistisch-Topographisches Lexikon von Franken. J. R. Bundschuh, 941*
- Franonian Jura: ¶Recherches spéléologiques et hydrologiques dans le Jura Franc-Comtois. E. Fournier, 314*
- Frank, A., 395*
- Franklin, G. E., 461
- Fraser, A., 470*
- Fraser, J., 942*
- Fraser, M., 633*
- Frazer, J. G., 543, 787*
- Frech, F., 395*, 554*
- Freeman, W. B. and R. H. Bolster, 69*, 469*; — and J. G. Mathers, 469*, 710*; See also Lamb, W. A.
- Freeman, W. G. and S. E. Chandler, 545
- Freer, P. C., 712*
- Frémont, E. B., Recollections of — Daughter of the Pathfinder Gen. J. C. Frémont, etc. Compiled by I. T. Martin, *ii*, 786
- French Colonies: See under France.
- French Equatorial Africa: See under Africa:—Guiana: See under Guiana; —Guinea: See under Guinea;—Indo-China: See Indo-China;—West Africa: See under Africa.
- Friederici, G., 784, 793*, 923
- Friedlaender, I., 793*
- Friedrich, W., 633*
- Fritsch, G., 942*
- Frobenius, L., 72*
- Froidevaux, H., Collat, O., and Others, 58
- Frost: ¶Frost Cartridges, 125; Frost Forecasting and Protection, 611
- Früh, J. See Maurer, J.
- Frye, A. E., 146*
- Fryer, J. See Roe, Sir T.
- Fuchs, H., 942*
- Fuenzalida, J. del C., & H. Polakowski, 630*
- Fuji Mt., Vegetation of. B. Hayata, 227*
- Fuller, M. L., 203, 710*; See also Hall, C. W.
- Fullerton, W. M., 942*
- Funke, M. R., 150*
- Furbach, P., 789*
- Furlong, C. W., 118*, 311*
- Furneaux, J. H., 942*
- Fusan: ¶Fusan oder Pusan, 72*
- Fynn, V. A., 789*
- G
- Gabun: ¶Les chemins de fer du Gabon et du Congo français, 792*; Ce qu'il faut faire sur le littoral du Gabon. G. Nzamba, 631*; Ce qu'il faut faire dans le nord du. G. Nzamba, 392*; Gabon et Moyen-Congo: Étude sur le pays Koudou-Djouah. Debrand, 312*
- Gadow, H., 131
- Gagel, C., 151*
- Gaillard, E., 926*
- Gaillard, G., 232*
- Gaillard, H., 312*
- Galapagos, Les Iles—et le Canal du Panama. P. Walle, 148*
- Gale, H. S., 469*
- Galicia: ¶Die Galizisch-Podolische Schwarzerde, ihre Entstehung, usw. L. Buber, 228*
- Galla: ¶Beiträge zur Ethnographie und Anthropologie der — Harari, Somäl. P. Paulitschke, 945*
- Gallé, P. H., 635*
- Gallois, E., 393*, 871*
- Gallois, L., 873*, 874*
- Gallouédec, L., 219; See also Schrader, F.
- Gallus, 791*
- Galtie, L., 871*
- Gammon, C. F., 285*, 348
- Ganges: ¶Une ancienne carte des sources du Gange. C. E. Bonin, 234*
- Ganith, Ch., 942*
- Gannett, F., 710*
- Gannett, H., 399
- Garbutt, H. W., 711*
- Garcia, P., 72*
- Garde, G., 780
- Gardiner, S. R., 942*
- Garibaldi, Giuseppe: ¶Garibaldi's Defense of the Roman Republic; — and the Making of Italy; — and the Thousand. G. M. Trevelyan, 947*
- Garlanda, F., 228*
- Garrett, A. O., 142*
- Gascony, Landes und Dunes of. C. Cobb, 314*
- Gaul: ¶Géographie ancienne historique et comparée des Gaules cisalpine et transalpine. Baron Walckenaer, 948*
- Gaumnitz, A. J. See Shaw, C. W.
- Gautier, E. F. and Chudeau, R., 696
- Geddes, P. and Mears, F. C., 474*
- Geer, T. T., 778

- Gehne, H., 939
 Geiger, L. See Zoepfritz, K.
 Geikie, J., 73*, 715*
 Geistbeck, M. See Fischer, H.
 Gelder, A. van, 396*
 Gelder, J. K. van, 633*
 Gemmingen, v., 307
 Geneva, Maps: ¶ Hydrographie du Bassin de Genève. Capture de Theiry. C. Rabot, 80*
 Gennep, A. van, 871*
 Genthe, M. K., 27
 Gentil, L., 552*
 Genty de Bussy, M., 943*
 Geochemistry, The Data of. F. W. Clarke, 315*
 Geodesy, Recent Progress in. A. R. Hinks, 315*
 Geographi latini minores. A. Riese, 946*
 Geographic Board of Canada: Decisions, 230*; Ninth Report: ¶—1910, 470*; — of the U. S.: Decisions, 311*, 550*, 789*, 929*; See also Place-Names.
 Geographical Bibliography: XXe Bibliogr. Géogr. Annuelle 1910, n., 547
 Geographical Collection: ¶ Galleria Geografica des Vatikans. E. Schmidt, 397*
 Geographical Congresses. ¶ Tenth International Geographical Congress, 124, 370; Der 18. deutsche Geographentag in Innsbruck. E. Scheu, R. Reinhard and F. Jaeger, 874*; Die 18. Tagung des Deutschen Geographentages zu Innsbruck in der Pfingstwoche 1912. P. Langhans, 874*; Eighteenth Meeting of German Geographers, 453; Die erste schweizerische Geographielehrertag. E. Bartschi, 396*; Le XXXe Congrès National des Sociétés Françaises de Géographie, 314*
 Geographical Dictionaries: ¶ Diccionario Geográfico d.l Uruguay. O. Araújo, 925*
 Geographical Literature and Maps: Accessions to the Library, 53, 127, 211, 295, 371, 455, 531, 613, 693, 777, 847, 919
 Geographical Papers, Current:
 North America, 69, 146, 229, 310, 391, 468, 549, 627, 710, 788, 868, 927
 Central America and West Indies, 70, 147, 230, 392, 470, 550, 630, 710, 789, 870, 930
 South America, 70, 148, 230, 311, 392, 471, 551, 630, 790, 869, 930
 Africa, 71, 148, 231, 312, 392, 471, 552, 630, 710, 791, 870, 931
 Asia, 72, 149, 232, 313, 393, 472, 553, 632, 712, 793, 872
 Australasia and Oceania, 73, 150, 232, 313, 394, 473, 554, 632, 712, 793
 Europe, 73, 151, 233, 314, 394, 474, 554, 633, 713, 794, 873
 Polar Regions, 74, 152, 475, 555, 634, 714, 795, 875
 Anthropogeography, 395, 876
 Anthropology, 234
 Economic Geography, 74, 152, 234, 396, 475, 795, 876
 Cartography, 395, 876
 Educational Geography, 153, 234, 396
 Ethnography, 396
 Historical Geography, 234, 315, 396
 Physical Geography, 152, 234, 315, 396, 475, 555, 635, 715, 795, 876
 General, 74, 315, 397, 475, 716
 Geographical Record, 44, 116, 203, 285, 364, 448, 518, 607, 684, 769, 848, 914
 Geographical Magazine, Vols. I, II. (1782-3). W. F. Martyn, 944*
 Geographical Material Destroyed by Fire, 522
 Geographical Publications, New: ¶ Bulletin of the Serbian Geog. Soc., 855; La Geografia, 776
 Geographical Societies: New Chilean Geog. & Hist. Soc., 451; — in Minnesota, 119; Geogr. Soc. of Wisconsin, 608
 Geographical Surveying, Instruction in. I. N. Dracopoli, 512
 Geographische Abhandlungen, 610, 918
 Geography. ¶ Comment on Col. Clow's Address on the Purpose and Position of Geography. M. K. Genthe, 27; Il contributo degli Italiani . . . agli studi geografici, etc. G. Riechieri, 794*; Geografia Generale. Capt. Giannitrapani, n., 391; La géographie en France. F. Kraentzel, 474*; Geography at the British Association, Portsmouth Meeting, 1911. A. J. Herbertson, 397* The Meeting of the British Association, 397*; — in the Encyclopædia Britannica, A. J. Herbertson, 74*; Home — and Type Studies. A. E. Frye, 146*; Some recent Contributions to. G. G. Chisholm, 397*; Relations of — to Geology. W. M. Davis, 908
 Geography Teaching: ¶ Zur Behandlung der Polarforschung in höheren Schulen. F. Schulze, 153*; Clark University's Work in Geography, 47; Courses on the Geography of the Orient, 610; Ensayo de análisis y

- síntesis y geográficas. C. G. Alonso, 396*; La enseñanza superior de la geografía. S. Tellez, 153*; La Géographie en Allemagne et en Autriche. F. Kraentzel, 554*; Über geographische Charakterbilder. K. Hüttl, 716*; Geographische Unterricht in nicht-deutscher Sprache an den Hochschulen Mittel- und Nordeuropas im Wintersemester, 1911/12, 234*; Geographische Reisen als Gegenstand einer Vorlesung an der Universität. W. Ule, 234*; Laying Emphasis in Teaching Geography in Asia. R. H. Whitbeck, 149*; Neue Bahnen für den erdkundlichen Unterricht an deutschen Schulen, 233*; Some Points to Emphasize in Teaching Geography of Africa. C. W. Hotchkiss, 396*; The Present Status of Geography Teaching. E. M. McMillan, 234*; Report of a Conference on the Teaching of Geography in London Elementary Schools, 229*; Value of the Physical vs. the Human Element in Secondary School Geography. F. Carney, 153*.
- Anthropogeography: ¶ Zur Anthropogeographie des Waldes. R. Marek, 876*; Einfluss der Wasserfällen auf die Ansiedelungen der Menschen. F. Kyaw, 228*; Les genres de vie dans la géographie humaine. P. Vidal de la Blache, 395*; Neuere Beiträge zur Landeskunde von Hessen: Anthropogeographie. W. Diemer, 73*; Klimaschwankungen und Völkerwanderungen im 19. Jahrhundert. E. Brückner, 876*.
- Comparative Geography: ¶ Statistique annuelle de Géographie humaine comparée. J. Birot, 716*.
- Economic Geography: ¶ Die deutschen Seestädte an der Nord und Ostsee. Ein wirtschaftsgeographischer Vergleich. A. Oppel, 395*; Some Geographic Relations illustrated in the Practice of Agriculture. R. E. Dodge, 277; Grundriss der Allgemeinen Wirtschafts- und Verkehrsgeographie. J. Stoiser, n., 709; Measurement in Economic Geography: Its Principle and Practice. B. C. Wallis, 396*; Notes on Economic Geography. A. P. Brigham, 152*; Wirtschaftliche Abhängigkeit Rheinland-Westfalens vom Boden. Eine wirtschaftsgeographisch-heimatkundliche Studie. M. Eckert, 314*.
- Ethnogeography: ¶ System der Ethno-Geographie. W. Pessler, 396*.
- Historical Geography: ¶ Association of History and Geography. A. J. Berry, rev., 864; An Essay in Historical Geography: The Making of Scotland. W. R. Kermack, 875*; Étude de géographie historique: Spitsberg dans l'histoire diplomatique. A. Raestad, 875*.
- Mathematical Geography: ¶ Compendium of Mathematical, Physical and Political Geography (In Yiddish). A. Harkavy, rev., 704; Mathematische Geographie. H. J. Klein, rev., 864.
- Military Geography: ¶ Outlines of Military Geography. A. C. McDonnell, rev., 865.
- Physical Geography: ¶ Course in Meteorology and Physical Geography. C. R. Dryer, 235*; Field Work in Physical Geography. C. R. Dryer, 235*.
- Political Geography: ¶ Politische Geographie. E. Schöne, n., 709.
- School Geography: ¶ Climatic Control (Black's School Geography). L. C. W. Bonacina, rev., 221; Commercial Geography.—C. C. Adams, 229*; — J. W. Redway, rev., 221; — General and Regional. J. F. Unstead and E. G. R. Taylor, n., 309; — of the British Isles. A. J. Herbertson, 229*; Elementary Geography. C. F. King, 309*; Elementary Physical Geography. Outline of Physiography. J. W. Redway, 229*; Exercises in Practical Geography on the British Isles. C. R. Dudley, rev., 64; Fifth year geography of N. Y. State, 145*.
- High School Geography. Physical, Economic, and Regional. C. R. Dryer, rev., 383; The New Outlook Geography. W. C. Brown and P. H. Johnson, 309*; Physical Geography for South African Schools. A. L. du Toit, n., 626; Systematic Geography of America. G. W. Webb, rev., 63; Teachers' Geography. Man and Climate. M. Jefferson, rev., 622; World Geography. R. S. Tarr and F. M. McMurtry, 229*.
- Geologen-Kalender, 1911. W. Quitzow, 946*.
- Geology: ¶ Geology and Economics. J. F. Kemp, 152*; Earth Features and their Meaning. An Introduction to Geology. W. H. Hobbs, rev., 384; History of Geology. H. B. Woodward, rev., 66; Principles and Objects of— with special Reference to Geology of Egypt. W. F. Hume, n., 390; Relation of Geography to — W. M. Davis, 716*; Revision of the Paleozoic Systems. E. O. Ulrich, 235*.

La science géologique. L. de Launey, 944*; Student's Handbook of Stratigraphical —. A. J. Jukes-Browne, *rev.*, 863; Die Trogfrage. R. Lucerna, 397*; The XIIIth International Congress of, 691

Aeolian Geology: ¶ An Aeolian City. V. A. Obruchev, 916; L'érosion éolienne et ses effets dans les régions désertiques. C. Vélain, 315*

Geomorphology: ¶ Entstehung der Kontinente. A. Wegener, 715*; Forms of Terrestrial Relief, *rev.*, 94; Notes on the Description of Land Forms. W. M. Davis, 908; Repeating Patterns in the Relief and in Structure of the Land. W. H. Hobbs, 235*

Geophysics: Physik der Erde. M. P. Rudzki, *rev.*, 222

George, R. D., 469*

Georgia: ¶ Agriculture. Farms, Live Stock, etc. Census 1910, 869*; The Georgia Annual, 1912, 708*; Population, Census 1910, 229*; Prel. Report on Geology of the Coastal Plain of. O. Veatch and L. W. Stephenson, 628*; Report on Limestones and Cement Materials of Northern. T. P. Maynard, 928*; Statistics of Manufactures, Census 1910, 550* ¶ Maps of Georgia: Milledgeville Quad., 556*; Charts: Ossabaw Sound, Vernon and Ogeechee Rs.; from Sapelo I. to Amelia I., 236*

German Colonies: See under Germany; German East Africa and German Southwest Africa: See under Africa; German New Guinea: See under New Guinea.

Germany: ¶ Die äussersten Jungendmoränen in Norddeutschland und ihre Beziehung zur Nordgrenze und zum Alter der Löss. E. Werth, 633*; Beiträge zur morphologischen Entwicklungsgeschichte der Nordseeküste mit besonderer Berücksichtigung der Dünen tragenden Inseln. W. Ordemann, 874*; Dünenbuch. F. Solger, P. Graebner, and others, *rev.*, 617; Sandbänke an der Küste der Deutschen Bucht der Nordsee. H. Poppen, 794*; Bewegung der Bevölkerung im Jahre 1909, 151*; Deutschen Ortsnamen im Nordostdeutschen Kolonialgebiet. F. Curschmann, *n.*, 626; Comparative Study of Imports and Exports of Great Britain, Germany and the U. S. in the Last Thirty Years. J. J. Macfarlane, 628*; Die deutschen Seestädte an der Nord und Ostsee. Ein wirtschaftsgeographischer Vergleich. A. Oppel, 395*; Deutschlands Grenzen in ihrer verkehrsge-

graphischen Bedeutung. E. Schmidt, 73*, 151* Eisverhältnisse an den deutschen Küsten. O. Steffens, 234*; Entstehung und Bau der deutschen Mittelgebirge. R. Reinisch, *rev.*, 61; Geol. Aufbau und die Oberflächen-gestaltung N. W.-Deutschlands. K. Olbricht, 73*; Über die Gliederung der Glazialbildungen Norddeutschlands und die Stellung des — Randlösses. F. Wahnschaffe, 233*; Die Lage der Grosstädte. A. Penck, 713*; Nordost-Deutschland. Handbuch für Reisende. K. Baedeker, 390*; Some Notes on Forestry. W. H. Miller, 233*; Die Slawen in Deutschland. F. Tetzner, 947*; Statistisches Jahrbuch für das Deutsche Reich, 1911, 73*; Vierunddreissigster Jahresbericht über die Tätigkeit der Deutschen Seewarte, 1911, 555*; Vergleichende Untersuchungen über die Vegetationsformationen des inneren Nordwestdeutschland, usw. P. Thor-meyer, 309*; Volkstämme und Landschaften. O. Weise, 709*; Wüstenformen in Deutschland? S. Passarge, 234*; ¶ Historical: Die Chronologie der ältesten Bronzezeit in Nord-Deutschland und Skandinavien. O. Montelius, 945*; Der deutsch-dänische Krieg. W. Rüstow, 946*; Die Herkunft der Germanen. G. Kos-sinna, 228*; Der Krieg von 1866 in Deutschland und Italien. W. Rüstow, 946*; Neue Chorographia und Histori Teutscher Nation. Jacob Schopper (1582), 947* ¶ Maps of Germany: Deutsche Ansiedlung in der Ostmark, Jan., 1911, *n.*, 80; Übersicht der Neuausgabe von Vogels Karte des Deutschen Reichs, usw., 239*; Übersichts-Blatt zu der Karte des Deutschen Reiches, *n.*, 479; Übersichtsblatt zur topographischen Übersichts-karte des Deutschen Reiches, *n.*, 479 ¶ German Colonies: ¶ Arbeiterfrage in den Kolonien, 876*; Baumwollunternehmungen. K. Supf, 713*; Die deutschen Kolonien. A. Heilborn, *n.*, 390; Deutschland's Kolonien. K. Hassert, 943*; Entwicklung, Methoden und Probleme der Geographie der. C. Uhlig, 233*; German Colonies, 1909-10. J. Dunstan, 233*; Gesundheitsverhältnisse. P. Kuhn, 713*; Jahrbuch über die deutschen Kolonien, 1911, *n.*, 391, 1912, *n.*, 867; Zum neuen Jahr [Summary of the present industrial and commercial status, 1910]. O. Warburg, 713*;

- Pflanzungen der Europäer unserer tropischen Schutzgebiete, 1910. F. Stuhlmann, 794*; Stand des Eisenbahnbaues in den Schutzgebieten, 713*
- Germein Bay: ¶ Germein-Bucht mit Port Pirie, 150*
- Germete bei Warburg, Die Umgebung der Mineralquellen von (Map), 560*
- Geyer, G., 73*
- Ghadames: ¶ L'importanza dell'Oasi di Gadames. A. M. Annoni, 792*
- Ghaie und Raluan, Tätigkeit der Vulkan. K. Sapper, 150*
- Ghimirra, Le. G. Montandon, 631*
- Ghisleri, A., 534
- Giannitrapani, L., 151*, 391*
- Gianno, S., 149*
- Gibbs, H. D., 313*
- Gibson, C. G., 473*
- Gifford, J., 74*, 547*
- Gigas, E., 396*
- Gilchrist, C. A., 313*
- Girard, A., 315*
- Girard, O., 943*
- Girardin, P., 319*
- Gironcourt, G. de, 631*
- Gisbert, D. F., 288
- Glacial Epoch: ¶ Eiszeit und Urgeschichte des Menschen. H. Pohlig, n., 709; Wurde die Eiszeit durch eine Temperaturerniedrigung hervorgerufen oder nicht? F. Nölke, 635*
- Glaciation and Glaciers. ¶ Australian Glaciation. W. Howchin, 554*; Beobachtungen über die Einwirkung der Strahlung auf das Gletschereis. J. Y. Buchanan, 635*; Corrasion by Gravity Streams, with Applications of Ice Flood Hypothesis. E. C. Andrews, 244*; Die Entstehung der Trogtäler zur Eiszeit. E. v. Drygalski, 875*; Die Trogfrage. R. Lucerna, 397*; Glacial Geology of Schenectady Quadrangle. J. H. Stoller, 628*; Glaciations quaternaires dans la Sibirie méridionale et la Mongolie occidentale. A. Allix, 872*; A Plea for Dr. Croll [Glacial phenomena]. J. R. Donald, 715*; Revue de Glaciologie, 1903-1907. C. Rabot, rev., 385; Glaciation of the Alaska Range. S. R. Capps, 788* ¶ Glaciers: Glaciers and Glaciation of Alaska. R. S. Tarr, 549*; Glaciers East of Mt. Wrangell, 365; In and Around the Morteratsch Glacier: Study in the Natural History of Ice. J. Y. Buchanan, 875*; Kurze Übersicht über die Gletschergebiete südlichen Norwegens. J. Rektstad, 395*; Observations on Glaciers in 1909. G. Vaux, Jr., 789*; Observations on Sir Sandford Glacier, 1911. H. Palmer, 550*; Phenomena Associated with Glacier Drainage and Wastage, with special reference to observations in Yakutat Bay Region. O. D. von Engeln, 469*; Survey of the Siachen Glacier. F. B. Workman, 897; Der Tschochogletscher in Baltistan. K. Oestreich, 393*; Variations périodiques des Glaciers. C. Rabot, 235* ¶ Maps: Carte du glacier des sources de l'Arc. P. Girardin, 319*; Carte des glaciers du Mulinet, du Grand Méan et des Evettes. P. Girardin, 319*; Gletscher des unteren Kupferflusses. L. Martin, 935*; Four maps to illustrate glaciation of Wisconsin, Michigan, Minnesota, 77*; Karte des Inn- und Salzachgletschers, 480*; Seven Maps illustrating Pleistocene glaciation of Superior Lake Region, 77*; Tongue of Sir Sandford Glacier. H. Palmer, 878*; Verlauf der Endmoränen zwischen Storchnest und der Oder, 639*; Verlauf der Lissauer Endmoränen von Dolzig bis zur russischen Grenze, 639*
- Glacier National Park, Mont. Topographic Map of, n., 398
- Glass, F. C., 925*
- Gleaves, A., 793*
- Gloucestershire (Cambridge County Geographies). H. A. Evans, n., 390
- Gmelin, Johann Georg—1709-1755. Der Erforscher Sibiriens, n., 467
- Godavari, India, Geography of. S. W. Cushing, 232*
- Godfernaux, R., 862
- Godfrey, S. H., 872*, 936*
- Goës, K., 699
- Goffin, l'Ingénieur, et Dryepondt, M., 791*
- Gold: ¶ Gold and Silver Mining and Reduction Processes as Responses to Geographic Conditions. G. D. Hubbard, 234*; Influence of Gold and Silver Mining upon the Characters of Men. G. D. Hubbard, 396*; Output of fine Gold, 234*
- Gold Coast: ¶ Cocoa Industry. C. E. Cookson, 711*; Kakaokultur an der Goldküste, 711*; Gold Coast Palaver. Life on the. L. P. Bowler, rev., 377; Kulturelle Wandlungen an der Goldküste im 19. Jahrhundert. F. Fischer, 932*
- Goldthwait, J. W., 147*, 287
- Gomera, die Waldinsel der Kanaren. W. Mav, 866*
- Gomes, E. H., 313*
- Gomme, Sir Laurence, 625
- González, P., 630*

- Goode, J. P., 81, Personal, 292
 Goodrich, J. K., 379, 779
 Gopčević, S., 943*
 Goplo Lake, Map: Tiefenkarte des Goplo-Sees (Preussischer Anteil). H. Schütze, n., 938
 Gordon, A. R., and Tyrrell, J. W., 155*
 Gorzente, La pioggia nell'alta valle del —. Contributo alla climatologia dell'Appennino Ligure. G. Anfossi, 474*
 Gosling, W. G., 129
 Gosnell, R. E., 624
 Gotha: ¶ Zur Geschichte der Gothaer Kartographie. H. Wagner, 555*
 Gotland: ¶ Hufvuddragen af Gotlands-fysikt-geografiska utveckling efter istiden. H. Munthe, 395*
 Götz, W., 943*
 Gould, C. N., 69*
 Gouldsbury, C., and H. Sheane, 458
 Goulven, J., 792*
 Graebner, F., 478*
 Graebner, P. See Solger, F.
 Graesse, J. G. Th., 943*
 Grand Mountain (Selkirk Range), First Ascent of. H. Palmer, 629*
 Granddier, A., 943*
 Grant, U. S., Personal, 612
 Grant, W. L., 147*
 Grass, The Wire-. R. M. Harper, 396*
 Grasset, Capt., 376, 399*
 Gratacap, L. P., 466*
 Graves, C. B. & E. H. Eames, 710*
 Graves, H. S., 74*, 229*, 310*, 622, 788*
 Gravier, G., 714*
 Gravitation, Theorie der. G. Jaumann, 876*
 Gravity: ¶ Effect of Topography and Isostatic Compensation upon the intensity of Gravity. J. F. Hayford & W. Bowie, rev., 464; The Force of Gravity and Methods of Measuring it. C. H. Swick, 183
 Grayback Mining District, Col., Geology of. H. B. Patton, C. E. Smith and Others, 869*
 Great Basin Drainage. W. B. Clapp and F. F. Henshaw, 549*
 Great Britain: See also England, Scotland, Wales, & United Kingdom: ¶ Beautiful Britain. J. E. Morris & G. E. Mitton, 867*; British Place-Names in their Historical Setting. E. McClure, n., 144; Cambridge County Geographies, n., 390, 626*; Races of Britain. J. Beddoe, 940*; The Romanization of Roman Britain. F. Haverfield, n., 926; Types of British Vegetation, n., 144 ¶ Maps of Great Britain: Maps accompanying "The Distribution of Early Bronze Age Settlements in Britain," 938*
 Great Lakes: ¶ Highways and Byways of. C. Johnson, rev., 55; The Use of the Great Lakes. R. R. McCormick, 628*; Uses of the. G. S. Williams, 629*
 Greece: ¶ Beschleunigter Reiseverkehr mit Griechenland. R. Hennig, 151*; Grèce. (Guides-Joanne). G. Fougères, 68*; Geschichte der wissenschaftlichen Erdkunde der Griechen. H. Berger, 940*; Geschichte Griechenlands von der Eroberung Konstantinopels im Jahre 1453 bis auf unsere Tage. K. Mendelsohn Bartholdy, 940*; Greek Commonwealth. Politics and Economics in Fifth-Century Athens. A. E. Zimmern, n., 787; History of Greek and Byzantine Empires, from 716 to 1453. G. Finley, 942*; Les Katavothres de Grèce [sink holes]. N. A. Sidéridès, 233*; Prehistoric Thessaly. Being account of recent excavations, etc., in North-Western Greece from Lake Kopais to the Borders of Macedonia. A. J. B. Wace and M. S. Thompson, 626*; Versuch einer Darstellung der griechischen Windverhältnisse und ihrer Wirkungsweise. A. Stange, 713*
 Greely, A. W., 525, 555*
 Greene, F. V., 455
 Greenland: ¶ Danmark Ekspeditionen til Grønlands nordøstkyst 1906-8, 634*; Auf Eisbären und Moschusochsen. R. Kmunke, n., 627; Greenland again crossed, 689; Meddelelser om Grønland, 1911, 634*; Mikkelsen's Return from East, 690; A. New — Expedition, 289; Dr. de Quervain's Trip across the — Ice-Cap, 855; Eastern and Western Settlements of Greenland, 160*; Über den Untergang der alten isländischen Kolonie auf Grönland. G. Meldorf, 74* ¶ Maps of Greenland: Eastern Settlement, Western settlement, n., 160; Kartenskizze der Umgebung von Karsuarsuk, Nordseite der Halbinsel Nugsuak, N. W. Grönland. A. Heim, 560*; Nordboruiner i Julianehaab Omegn, n., 560; Das skandische Senkungsgebiet mit Randhebungszentren. G. Geer, n., 939; Sketch of area investigated for plankton during "Danmark-Expedition," 1906-8, 640*; Sketch map

- of the east coast of N. E. — between 80° and 81° N. L. showing position and extension of carboniferous rocks, 640*
- Gregory, H. E. See Dale, T. H.
- Gregory, J. W., 232*, 235*
- Gregory, M. H., 924
- Gregory, R. E., 69*
- Greifswald, Das Klima von. C. Hahndorf, 73*
- Greim, G., Partsch, J., and Others, 795*
- Grenfell, W. T., 211
- Grenoble, Vienne, Dijon. Quelques études de villes. L. Gallois, 873*
- Greswell, W. P., 943*
- Grevel, W., 314*
- Grierson, G. A., 860
- Griffis, W. E., 227*, 867*, 943*
- Griffith, E. L., 711*
- Griffith, F. L. See Crowfoot, W. J.
- Griffith, W., and E. T. Conner, 710*
- Griffiths, A., 787*
- Grinnell, G. B., 943*
- Grisons: ¶Grundliche und warhafft Beschreibung der uralten Alpischen Rhetie. Tschudi, (1560), 947*
- Groll, M., 634* See also Diest, W. v.
- Grollier, M. von & E. Bormann, 943*
- Groot, J. J. M. de, 926*
- Grosier, L'abbé. See Moyriac de Mailla, J. A. A. de.
- Groth, B. H. A., 627*
- Grothe, H., and Others, 302, 318*
- Gsell Fels, Th., 867*
- Guarneri, A., 874*
- Guas Ngishu Plateau, Notes on the Haunts and Habits of the Elephant on. A. C. Hoey, 71*
- Guatemala: ¶Guatemala in 1910, 230*; Statistical and Commercial History of the Kingdom of. (1823). D. Juarros, 944*
- Guayule, The Story of. (A source of rubber), 715*
- Guénin, E., 308*
- Guérin-Ganivet, J., 713*
- Guerrero: ¶Estudio sobre la ciudad de Sta. Maria de Chilapa. V. de P. Andrade, 392*; Ueber die Ursache der letzten grossen Erdbeben von Kalifornien und an der Kueste von. E. Boese, 549*
- Guggisberg, F. G., 143*
- Guiana, British: ¶Americans of the Interior of. J. Williams, 790*; Boundaries of British Guiana. J. A. J. de Villiers, 790*; In the Guiana Forest. J. Rodway, n., 466; Gold and Diamond Industries, 551*; — and Brazil to Mount Roraima. H. E. Crampton, 471*; My Journey from Kalacoon to the Orinoco. M. McTurk, 471*; Some of the preventable Diseases of — and what we can do to prevent them. A. T. Ozzard, 230*; Synoptical View of the Mosquitos of, 230*; Trade for 1907, 930*; Trip to the Abary Creek. C. W. E. Humphreys, 230* ¶Maps of British Guiana: The Daily Chronicle Map of, n., 476 Dutch Guiana: ¶Trade for 1907, 930*; Verslag der Corantijn-Expeditie 1910-11. C. C. Käyser, 791* ¶Maps of Dutch Guiana: De Corantijn, n., 798; Overzichtskarte van Suriname, n., 798 French Guiana. ¶Guyane française. Production minière en 1909, 392*
- Guild, F. N., 54
- Guillain, M., 943*
- Guillotet, F., 469*
- Guimaras, West Coast of: Chart of Santa Ana Bay, 636*
- Guinea: ¶Short Account of that Part of Africa Inhabited by the Negroes . . . and the Manner by which the Slave Trade is carried on. A. Benzet (1772), 940*; Vejledning til Akra-Sproget på Kisten Guinea. R. Rask, 946* French Guinea: ¶Chemin de fer de Guinée et la Navigation du Niger, 312*; Les frontières de la Guinée Française, de Sierre Leone et du Liberia. A. Terrier, 931*; Guinée Française, 932*; Un Séjour au Fouta Djallon. F. Pobéguin, 932* Portuguese Guinea: ¶Sketch map showing routes of P. H. G. Powell-Cotton & C. S. Burnett, 559*
- Spanish Guinea: ¶Guinea Española, 231*
- Guinnes, G., 943*
- Gujarat, Political and Statistical History of. J. Bird, 940*
- Gulf Stream: ¶The Gulf Stream. J. E. Pillsbury, 928*; Le — dans les mers de l'Europe occidentale. C. Cépède, 396*
- Gulkana and Susitna Rivers, Headwater Regions of. F. H. Moffit, 928*
- Gullett, H. S., 313*
- Gunnison, J. W., 943*
- Günther, K., 467*
- Günther, S., 707
- Gutenberg, B. See Zoeppritz, K.
- Guthe, H., 782
- Gwynn, C. W., 71*

- H
Habenicht, H., and Wichmann, H., 800
Haeberle, A. T., 630^o
Hagenbeck, C., 226
Hahn, C. v., 233^o, 225^o
Hahn, F., 73^o
Hahn, P. D., 149^o
Hahndorf, C., 73^o
Hahne, H., 62
Haillet, Commandant, 227^o
Haiti: ¶Haiti in 1910, 147^o
Halbfass, W., 315^o, 475^o
Hale, A., 471^o, 931^o
Hall, C. W., O. E. Meinzer & M. L. Fuller, 69^o
Hall, E. H., 624
Hall, M. R. and J. G. Mathers, 710^o, 927^o
Hall, R. N., 477^o
Hall, S. C., 138
Hall, W. L. and Maxwell, H., 788^o
Hallström, G., 395^o
Hamberg, A., 397^o
Hamburg: ¶Hundert Jahre Hamburgischen Südruchthandels (1790-1890). R. Dannenbaum, 874^o; Port of Hamburg. E. J. Clapp, *rev.*, 860
Hammer, M., 793^o
Hammer, W. See Ampferer, O.
Hamy, E. T., 385
Handel-Mazzetti, H. v., 937^o
Hann, J., 875^o
Hannig, Capt., 313^o
Hanotaux, G., 133
Hansch, F., 870^o
Hansen, A. M., 554^o
Häpke, R., 930^o
Harari: ¶Beiträge zur Ethnographie und Anthropologie der —, Somäl, Galla. P. Paulitschke, 945^o
Harbort, E., 151^o
Harkavy, A., 704
Harper, R. M., 90, 310^o, 396^o, 635^o, 710^o
Harris, J. T. and F. Kiefer, 788^o
Harshberger, J. W., 449
Hartmann, O., 228^o
Hartmann, R., 943^o
Haseman, J. D., 790^o
Haslehubst, E. W. See Thomas, E.
Hassam, A. and Odeh, N., 146^o
Hassert, K., 943^o
Hassinger, H., 713^o
Hastings, J., 943^o
Hausa Sayings and Folk-Lore with a Vocabulary of New Words. Compiled by R. S. Fletcher, 308^o
Haushofer, K., 232^o
Hautes-Alpes, Histoire, topographie, antiquités, usages, dialects des. J. C. F. Ladoucette, 944^o
Hautes-Pyrénées, Utilisation industrielle des torrents de montagne dans les. D. Eydoux, 874^o
Hauthal, R. H., 78^o, 614
Hautreux, A., 529
Haverfield, F., 926^o
Hawaii, Territory of: Population, Census 1910, 229^o ¶Chart, 237^o
Hayata, B., 227^o, 232^o
Hayden, H. H., 150^o
Hayes, Sir John, A Forgotten Navigator and His Voyage of 1793. I. Lee, 234^o
Hayford, J. F. and W. Bowie, 464
Hazard, D. L., 69^o, 471^o, 790^o, 868^o
Headden, W. P., 391^o
Heath River, 311^o ¶Map: Position of the, *n.*, 156
Heaton, E. W., 310^o
Hebard, G. R., 142^o
Hebrides, Map (International), 400^o
Hedin, S., 468, 548^o
Heidke, P., 231^o, 711^o
Heilborn, A., 390^o
Heim, A., 560; Heim's Ascent of Smeroe, 453
Heim, F., 795^o
Hein, C., 233^o
Héjas, E., 151^o
Heldring, O. G., 633^o
Helferich, E., 632^o
Holland-Hansen, B., 315^o
Hellaue, J., 64
Hemmeon, J. C., 548
Henderson, B., 151^o
Henglein, M., 876^o
Henkel, F. W., 305
Hennig, R., 68^o, 151^o, 873^o
Henning, C. L., 613, 788^o
Henrici, E. O., 397^o, 471^o, 710^o
Henry, A. J., 310^o, 927^o
Henry, J. P., 943^o
Henry of Portugal, Prince—and His Political, Commercial and Colonizing Work. C. R. Beazley, 396^o
Henshaw, F. F. See Clapp, W. B. & Lamb, W. A.
Henshaw, H. W., 868^o;—and C. Birdseye, 69^o, 469^o
Henson, M. A., 548
Herbert, A., 217
Herbertson, A. J., 74^o, 123, 229^o, 397^o
Herbette, J., 150^o
Heredity in Relation to Evolution and Animal Breeding. W. E. Castle, *n.*, 390
Herendeen Bay and Unga Island, Reconnaissance Topographic Map of, 154^o
Hergesell, H., 475^o, 716^o
Herit, G., 233^o
Hermannsson, H., 151^o

- Herodotus, Commentary on. Introduction and Appendices by W. W. How and J. Wells, *rev.*, 704
- Heron, A. M., 149*
- Herre, P., 943*
- Herrera, F. L., 552*
- Herring, Report on International — Investigations during 1910, 396*
- Herrmann, R., 232*
- Hertzberg, G. F., 943*
- Herzberg, F., 943*
- Herzegovina, Map: ¶Strategische Eisenbahnen und Eisenbahnpläne in Bosnien und der, *n.*, 80
- Hess, F. L., 927*
- Hesse: ¶Geologischer Führer durch das Grossherzogtum Hessen. R. Lepsius, G. Klemm and Others, 151*; Neuere Beiträge zur Landeskunde von—. Anthropogeographie. W. Diemer, 73*; Neuere Literature zur Landeskunde:—Physikalische Geographie. F. Markert, 73* ¶Maps of Hesse: Übersicht der Höhengschichtenkarte . . . Hessen, 239*
- Hettner, A., 875*
- Hewison, J. K., 709*
- Higgins, D. F., 876*
- Highways: See Roads.
- Hill, A. J., & Lewis, T. H., 532
- Hill, B., 629*
- Hill, H., 233*
- Hill, J. J., 296
- Hill, J. M., 927*
- Hilton-Simpson, M. W., 457
- Himalayas: ¶Journeys in the—and factors of Himalayan Erosion. A. Neve, 149*; Latest — Explorations of the Workmans, 17; On the Origin of the. A Consideration of Geodetic Evidence. S. G. Burrard, 844; Stalks in the Himalaya. E. P. Stebbing, *rev.*, 381; Survey of the Siachen Glacier. F. B. Workman, 897
- Himalayan States: Les Royaumes des Neiges (États Himalayens). C.-E. Bonin, *rev.*, 539
- Hindu Kush: ¶Tribes of the Hindoo Koosh. J. Biddulph, 940*
- Hindus: ¶Antiquity and Originality of Hindu Civilization. J. B. Keith, 232*; Who are the Hindus? J. B. Keith, 232*
- Hinks, A. R., 315*
- Hirayama, S., 313*
- Hispanic Society of America, 475*
- Historical Geography. See under Geography.
- History: ¶Association of History and Geography. A. J. Berry, *rev.*, 864; Beginnings of History. E. M. McDougall, *n.*, 787; The Dawn of. J. I. Myres, 310* ¶Maps: A New School Atlas of Modern History. R. Muir, *n.*, 800
- Hitchcock, F. R. M., 943*
- Hitier, H., 715*
- Hittites: ¶Hittites in Africa. J. K. Erskine, 231*
- Hjuler, A., 793*
- Hobbs, W. H., 235*; 384, Personal, 292
- Hobley, C. W., 71*, 300
- Hochepied Larpent, G. de, 793*
- Hodge, F. W., 392*
- Hodgkin, T., 233*
- Hodson, E. R. and J. H. Foster, 788*
- Hoel, A. and O. Holtedahl, 875*
- Hoey, A. C., 71*
- Hoffmeister, E. v., 400*, 783
- Hogarth, D. G., 139
- Hohe Tauern, Die Formen alpiner Hochtäler, insbesondere im — gebiet, und ihre Beziehungen zur Eiszeit. L. Distel, 873*
- Hokkaido, Übersichtskarte von West—, *n.*, 937
- Holderness, M., 943*
- Holderness, Sir T. W., 308*
- Holdich, T., 553*
- Holley, F. C., 943*
- Hollick, A., 927*
- Holm, O., 372
- Holmes, J. S., 549*, 927*
- Holmsen, G., 309*
- Holsche, A. C. v., 943*
- Hölscher, G., 699
- Holt, W. E., 549
- Holtedahl, O. See Hoel, A.
- Holy Land: See Palestine.
- Hommel, F., 943*
- Honduras: ¶ — in 1910, 147*; Visit to the Department of Olancho, A. T. Haerberle, 630*
- Honeoye-Wayland Quadr., Geology of the. D. D. Luther, 628*
- Hooker, Sir Joseph Dalton, *Obituary*, 124
- Hoosac Valley. Its Legend and Its History. G. G. Niles, *n.*, 925
- Hopi, Brief Miscellaneous — Papera. H. R. Voth, 628*
- Hopkins, C. G., J. G. Moser and Others, 868*;—and J. H. Pettit, 868*
- Hopwood, C. H., 714*
- Horn, A. v., 235*
- Horsfall, H. A., 935
- Hosaeus, C. C., 473*, 633*, 793*
- Hotchkiss, C. W., 396*
- Hotchkiss, W. O., 77*
- Hot Springs, Ark., and Vicinity, Map, *n.*, 933
- Hottentots: ¶Volkscharakter und Fabeln der Hottentotten. H. Fischer, 312*

- Houllevigue, L., 140
 Houston Ship Channel, Chart, 236*
 Hovey, H. C., 786*
 How, W. W. and J. Wells, 704
 Howchin, W., 554*
 Howe, H. A., 469*
 Howell, A. H., 469*
 Howitt, A. W., 943*
 Hrdlička, A., 522, 781. See also
 Fewkes, J. A.
 Hsi-ning Fu (Sining), Route Traverse
 between — and Kan-chou Fu by O. R.
 Coales, Map, *n.*, 478
 Huascarán: ¶Determination de l'alti-
 tude du Mont Huascarán exécutée
 en 1909, etc., 625* ¶Map: A. S.
 Peck's Route, *n.*, 317
 Hubbard, G. D., 234*, 396*, Personal,
 292
 Hubert, H., 72*, 393*
 Hübner, D., 393*
 Hudson Bay: ¶Drainage Area in the
 U. S. R. Follansbee and Others,
 710*; La Baie d'Hudson. L. A.
 Prud'homme, 470*; — Route: New
 Outlet for Canadian Wheat. A. L.
 Bishop, 550*
 Hudson Bay Co., Examination of the
 Charter of Proceedings of the. J.
 E. Fitzgerald, 942*
 Hudson R.: ¶—Drainage Basin. H.
 K. Barrows and Others, 468*; Pre-
 Glacial Course of the Upper. W. J.
 Miller, 69*; The Storm King Cross-
 ing of the Hudson R. (Catskill
 Aqueduct). J. F. Kemp, 685 ¶Chart:
 Hudson R.: New York to Haver-
 straw, 236*
 Huebner, G. G. See Johnson, E. R.
 Huet, P. D., 943*
 Hulbert, A. B. and W. N. Schwarze,
 868*
 Hulot, E., 630*
 Humboldt, Alexandre de, Correspond-
 ence d'—avec François Arago. E. T.
 Hamy, *rev.*, 385
 Hume, W. F., 390*
 Hume-Griffith, M. E., 943*
 Humphreys, C. W. E., 230*
 Humphreys, W. J., 527
 Hunfalvy, P., 943*
 Hungary. See also Austria-Hungary:
 ¶Deutsche Sprachgebiet in Südun-
 garn. R. v. Pfandlner, 73*; Geog-
 raphische Verteilung der Gewitter in
 Ungarn. E. Héjas, 151*; Hungary.
 A. & M. Stokes, 947*; Königreich
 Ungarn. A. v. Matlekovits, 944*;
 Ungarn. P. Hunfalvy, 943*; Ver-
 breitungsbereich der deutschen Sprache
 in Westungarn, 73*; Voyage en Au-
 tomobile dans la Hongrie pittoresque.
 P. Marge, 143* ¶Maps of Hungary:
 Generalkarte des Komitates Turóc-
 sz. Márton mit den Nachbargebieten,
n., 319; Lignes de fracture dans
 la partie occidentale du grand bassin
 hongrois d'après de Loczy, 80*
 Hunsrück, Map: ¶Lageplan des "Hun-
 nenrings in südlichen —. P. See-
 haus, 239*
 Hunt, A. S., 145*
 Hunt, H. A., 473*, 794*
 Hunters, Ancient—and their modern
 Representatives. W. J. Sollas, *rev.*,
 702
 Huntington, E., 393*, 440, 801; Per-
 sonal, 292
 Huron Indians, 1615-1650. Report of
 Bureau of Archives, Ontario, 1908.
 A. Fraser, 470*
 Hutchins, D. E., 792*
 Hutt, M., 150*
 Hüttl, K., 716*
 Hutton, S. K., 624
 Hyderabad and Bombay, Map, *n.*, 478
 Hydrographic Surveying. Commander
 Stuart, *rev.*, 224
 Hydrographical and Meteorological
 Phenomena, Connection between. O.
 Pettersson, 876*

I

- Iberian Peninsula: ¶Beobachtungen
 eines reisenden Geographen auf der
 Iberischen Halbinsel. G. Braun, 713*
 Ibn-Omar-el-Tounsy, 947*
 Iceland: ¶Ancient Laws of Norway
 and Iceland. H. Hermannsson, 151*;
 Folktrö på Island [Popular super-
 stitions in]. A. Backman, 314*;
 Das islandische Hochland zwischen Hof-
 sjökull und Vatnajökull. H. Erkes,
 152*;
 Lecture on. W. S. C. Rus-
 sell, 364*;
 Melrakkasljetta, Islands
 nördlichste Halbinsel. H. and E.
 Erkes, 74*;
 Varne Kilder Paa Island
 deres Fysisk-Geologiske Forhold og
 Geografiske Udbredelse. Th. Thor-
 oddsen, 228*
 Idaho: ¶Idaho-Washington Boundary,
 119; Retracement of Boundary Line,
 from Junction of Snake and Clear-
 water Rivers, N. to Intern. Boundary.
 R. B. Marshall, 470*;
 Irrigation. Farms and Acreage Irrigated, etc.,
 Census, 1910, 70*;
 Lead and Copper
 Deposits in the Bear River Range.
 R. W. Richards, 69*;
 Manufactures. Statistics for 1909, 70*;
 Mica in Idaho, etc. D. B. Sterrett, 928*;
 Population, Census 1910, 70*, 929*;
 Prel. Report on Phosphate Reserve.
 R. W. Richards and G. R. Mansfield,

- 470*; Results of Spirit Leveling, 1896 to 1909. R. B. Marshall, 147* ¶ Maps of Idaho: Cataldo Quad., 398*; Montpelier Quad., 75*
- Idenburg R., Map: Schets van den loop der Idenburg-rivier, *n.*, 158
- Iki, T., 150*
- Iliamna Region, Alaska, Geologic Reconnaissance of the. G. C. Martin and F. J. Katz, 868*
- Illinois: ¶ Agriculture. Census 1910, 311*; Clay County Soils. Moultrie County Soils. C. G. Hopkins, J. G. Moser and others, 868*; Fertility in —Soils. C. G. Hopkins and J. H. Pettit, 868*; Status of Soil Fertility Investigations, 929*; Geology and Mineral Resources of Peoria Quadrangle. J. A. Udden, 628*; New Base Map of, 686; Petroleum Fields. R. S. Blatchley, 417; Population, Census 1910, 70*; Results of Spirit Leveling 1909-10. R. B. Marshall, 628*; Statistics of Manufactures, Census 1910, 929* ¶ Maps of Illinois: Base Map of—, *n.*, 399; Canton Quad., *n.*, 934; Elizabeth Quad., 398*; New Athens Quad., 556*; State of Illinois, *n.*, 796; Provisional Geologic Map of, *n.*, 935
- Iloilo Strait and Harbor, Chart, 636*
- Incas: ¶ Anotaciones a la "Historia Indica" del Capitan Pedro Sarmiento de Gamboa. H. Steffen, 227*; Incas of Peru. C. R. Markham, *rev.*, 858
- Index Mining District, Wash., Geology and Ore Deposits of the. C. E. Weaver, 628*
- Indexes. See also Bibliography and Catalogues: ¶ Classified List of Smithsonian Publications available for distribution, 1912, 929*; General Index to Archaeological Reports of the Egypt Exploration Fund, 1890-1909. W. L. Nash, 945*; Finding List of Books in Science, Medicine, Agriculture, Technology, Military and Naval Science, 716*; General Index to the Proceedings of Amer. Philosoph. Soc. held at Philadelphia, Vols. 1-50, 629*
- India: ¶ Administration and Progress. Sir John Strachey, *rev.*, 217; Bevölkerung von Indien. H. Wichmann, 553*; Chinese Frontiers of. A. Rose, 712*; Cities of. G. W. Forrest, 942*; Die indischen Grossstädte. K. Goës, *n.*, 699; Collins' Triangulation of Teram Kangri. T. G. Longstaff, 872*; Conditions in India, 1910. J. P. Jones, 72*; Economic Transition in. T. Morison, *rev.*, 539; The Forward Policy and its Results. Thirty-five Years' Work Amongst the Tribes on our North-Western Frontier. R. I. Bruce, 941*; Gates of India. T. Holdich, 553*; Glimpses of. J. H. Furneaux, 942*; Das heutige Indien. Grundlagen und Problemen der britisch-indischen Herrschaft. G. Wegener, 232*; India and the Durbar, *rev.*, 137; Eight Lectures on. H. J. Mackinder, 143*; India in 1880. Sir Richard Temple, 947*; Peoples and Problems of. Sir T. W. Holderness, 308*; Progress of India, Japan and China in the Century. Sir Richard Temple, 947*; Public Works. Sir A. T. Cotton, 942*; Results of the Abor Expedition, 773; Sport on the Nilgiris and in Wynaad. F. W. F. Fletcher, 625; Through India and Burmah with Pen and Brush. A. H. Fisher, *rev.*, 922; Mineral Production, 1910. H. H. Hayden, 150*; Native States of India. Sir William Lee-Warner, *rev.*, 58; The New Capital of, 208 ¶ Historical: Antiquity and Originality of Hindu Civilization. J. B. Keith, 232*; Who are the Hindus? J. B. Keith, 232*; British-India, 1600-1828. A. W. Tilby, *rev.*, 700; Early History of. V. A. Smith, 947*; English factories in,—1637-1641. Calendar of Documents, etc. W. Foster, *n.*, 866; History of the Protestant Missions in India. M. A. Sherring, 947*; History of the rise of the Mahomedan Power in India. J. Briggs, 941*; Oxford India Reader, Vols. I-IV. W. Bell, *n.*, 548; Political History of. Sir John Malcolm, 944*; Die Reise des Arabers Ibn Batûta durch Indien und China (14. Jahrh.). Bearbeitet von H. v. Mzik, *n.*, 866; Rulers of India, 14 Vols. 948*; Selections from Letters, etc. Foreign Dept. of the Government of India, 1772-85. G. W. Forrest, 942*; ¶ Surveys: General Report of Geol. Survey of, for 1910. H. H. Hayden, 150*; General Report on the Operation of the Survey of—, 1909-10, 232*; List of Officers in the Survey, corrected to 1st July, 1911, 475*; Magnetic Survey. R. H. Thomas, 313*; Tidal and Leveling Operations, 1908-09. C. F. Erskine, 397*; Triangulation in. C. M. Browne, 232* ¶ Maps of India: Greater India. E. Banse, *n.*, 240; India and Adjacent Countries, *n.*, 478; Map showing

- route of German Crown-prince, 1910-11, and of Dr. Wegener in 1898 and 1910-11, 158*; Railway and Canal Map of, *n.*, 478; Standard Map of India. Eighteen Sheets, *n.*, 717; Sketch Map to illustrate paper on Chinese frontiers of India, *n.*, 559; Sketch Map of Capt. F. M. Bailey through South Eastern Tibet and the Mishmi Hills, *n.*, 559
- Indiana: ¶Population, Census 1910, 229*, 929*; Statistics of Manufactures, Census 1910, 929* ¶Map: Prospect Quad, 877*
- Indian Ocean: ¶Magnetic Chart Errors and Secular Changes in the. L. A. Bauer and W. J. Peters, 152*; Navigation of the—and Eastern Seas. A. Dalrymple, 942*; L'océan Indien, d'après Sir John Murray. L. W. Collet, 715*; The Periplus of the Erithræan Sea. Travel and Trade in the Indian Ocean, by a Merchant of the First Century. Translated, etc., by W. H. Schoff, *rev.*, 224 ¶Maps of Indian Ocean: Planisphere. Océan Atlantique et Océan Indien, *n.*, 320; Steamship routes between Durban and Nagasaki or Yokohama, 160*; School Wall Map of, *n.*, 240; Wind und Stromverhältnisse auf der Fahrt von Singapore nach Friedrich-Wilhelms-hafen . . . 1910, 160*
- Indians, American: ¶Blackfoot Lodge Tales. G. B. Grinnell, 943*; Brief Miscellaneous Hopi Papers. H. R. Voth, 628*; Comparative Sketch of the Menomini. A. Skinner, 470*; Conquest of Coeur d'Alenes, Spokanes and Palouses. Expeditions . . . against the "Northern Indians," 1858. B. F. Manring, *rev.*, 777; Farming and Stock Raising among the Indians. J. R. Eddy, 549*; Huron Indians, 1615-1650. Report of the Bureau of Archives, Ontario. A. Fraser, 470*; Incas of Peru. C. R. Markham, *rev.*, 838; Anotaciones a la "Historica Indica" del Capitan Pedro Sarmiento de Gamboa. H. Steffen, 227*; The Manhattan Indians. A. Skinner, 928*; Maynas. Breve noticia geográfica é histórica. B. Beltrán y Rózpide, 551*; Micmac Indians of Nova Scotia. H. Piers, 930*; Notes on the Fox Indians. W. Jones, 549*; Once their Home. Our Legacy from the Dakotahs. Historical, Biographical, etc. F. C. Holley, 943*; Pueblo Indians of New Mexico. F. C. Wilson, 629*; Omaha Tribe. A. C. Fletcher and F. La Fleche, 69*; Some problems in the Ethnology of Crow and Village Indians. R. H. Lowie, 628*; Tahltan Indians. G. T. Emmons, 929*; Thousand Miles in a Dug-Out: Narrative of a Journey . . . among Indians of Central Brazil. F. C. Glass, *n.*, 925; Uitoto-Indianer. Weitere Beiträge zu ihrer Sprache. T. Koch-Grünberg, 552* ¶Maps: Country known to the Omaha, *n.*, 77; Omaha Reservation. H. L. Keefe, 77*
- Indo-China, French: ¶Chemins de fer Indochinois. G. Salé, 72*; Forgotten Ruins of. J. E. Connor, 712*; Géologie de l'Indo-Chine. M. A. Petitot, 945* ¶Maps: Karte des Südostlichen Asiens nach Ptolemäus, Kartenbild des Ptolemäus mit den heutigen Namen, Südost Asien, *n.*, 480
- Inn and Salzach Map: ¶Karte des Inn- und Salzachgleiters, 480*
- Innsbruck: ¶—. Eine geographische Skizze. H. Hassinger, 713*; Der Innsbrucker Föhn. R. Klein, 314*; Das Klima von—mit besonderer Rücksicht auf den Föhn. A. Defant, 713* Inouye, K., 150*
- Instituto Historico e Geographico Brasileiro, Geographical Material of — Destroyed by Fire, 522
- Ionian: ¶Ionien und westliche Lydien. A. Philippson, 313*
- Iowa: ¶Agriculture, Census 1910, 311*; Diary of a Journey from the Netherlands to Pella, Iowa in 1849, 929*; Iowa. A Reprint from the "The Indian Record," etc. W. H. Miner, 142*; Iowan Drift. S. Calvin, 391*; Manufactures, Census 1910, 550*; Population, Census 1910, 147* ¶Map: Knoxville Quad., 398*
- Ireland. See also United Kingdom: ¶Census of—for 1911. Preliminary Report, 315*; History in the 18th Century. W. E. H. Lecky, 944*; Population, Census 1911, 49; Tales of Irish Life and Character. S. C. Hall, *n.*, 138; Types of Celtic Life and Art. F. R. M. Hitchcock, 943* ¶Maps: Bacon's Excelsior Map of Ireland with Adjacent Coasts of Great Britain. G. W. Bacon, *n.*, 720; Bartholomew's "Quarter Inch to Mile" Map, *n.*, 719
- Iron: Output of Certain Minerals and Metals of the World, 234*
- Irving, J. D. and H. Bancroft, 868*
- Irving, R. D. and C. R. Van Hise, 77*

- Isanotski Strait, Chart of Southern part of, 636*
- Islam: ¶A Challenge to Faith. S. M. Zwemer, *n.*, 310; De l'état présent et de l'avenir de l'Islam. E. Montet, *rev.*, 67; Islam as a Factor in West African Culture. G. W. Ellis, 71*
- Isle of Man. J. Quine, 390*; Isle of Man. J. E. Morris, *n.*, 867; List of Works Relating to the. G. F. Black, 395*
- Isle of Pines: ¶A Caribbean Island. G. Fortescue, 230* ¶Map of the Isle of Pines, 156*
- Isle of Wight. G. E. Mitton, *n.*, 867; —. E. Thomas, and E. W. Haslehurst, 926*
- Isostasy: ¶Effect of topography and isostatic compensation upon the intensity of gravity. J. F. Hayford and W. Bowie, *rev.*, 464; Isostasy and the Mountain Ranges. G. F. Reid, 354; Isostasie und Peneplain. A. Rühl, 235*; Isostasy and Mountain Ranges. H. F. Reid, 354; Les lignes de fracture de la croûte terrestre. A. Pécsi, 235*; Theory of Isostasy. H. Lewis, 235*; What is Terra Firma? Review of Current Research in Isostasy. B. Willis, 315*
- Israelites: See Jews.
- Issans and Iramba, Die Landschaften. E. Obst, 632*
- Italian Colonies: See under Italy.
- Italy: ¶Annuario Statistico, 1911, 634*; Bevölkerungsprobleme Altitaliens. R. v. Scala, 795*; La guerre Italo-Turque et ses conséquences, 393*; Tripoli and Young Italy. C. Lapworth and H. Zimmern, *rev.*, 921; Earthquakes in, 369; Garibaldi and the Making of. G. M. Travelyan, 947, —'s Defense of the Roman Republic. G. M. Travelyan, 947*; Géographie ancienne historique et comparée des Gaules cisalpine et transalpine. Baron Walckenaer, 948*; Geophysikalische Zusammenhänge und kulturelle Lehren der Erdkatastrophen Südtaliens, und Siziliens. W. Krebs, 874*; Italien als Mittelmeeremacht. P. D. Fischer, 634*; Der Krieg von 1866 in Deutschland und Italien. W. Rüstow, 946*; Materiali per la climatologia d'Italia. La pioggia nella regione ligure, 713*; Movimento commerciale Italo-Australiano. L. Mercatelli, 314*; The New Italy. Discussion of its Present Political and Social Conditions. F. Garlanda, *n.*, 228; New Italian Forest Policy. G. A. R. Borghesani, 634*; Nuova Carta d'Italia al 100,000, Inst. Geogr. Milit. L. Giannitrapani, 151*; Southern Italy, Sicily, etc. Handbook for Travellers. K. Baedeker, *n.*, 926; La Tusca Romana. E. Barbarich, 634*; Die wirtschaftlichen Zustände der südlichen Provinzen Italiens. A. Rühl, 474* ¶Italian Colonies: Cartografia coloniale. A. Mori, 471*; Italian Colonial Expansion: Its Origin, Progress and Difficulties. A. Baldacci, 314* ¶Maps of Italy: Maps showing regions affected by malaria, *n.*, 879; Quadro d'Unione dei Fogli della Carta d'Italia, — della Granda Carta Topografica, etc., della Carta Corografica, 159*; Trade Routes leading to Florence, 400*; Twelve sheets of various editions of the Map of Italy published by the Istituto Geog. Militarte, *n.*, 319
- Itimbiri R. and Country between the Welle and Aruwimi Rivers, Map, *n.*, 156
- Ivory Coast: ¶Côte d'Ivoire, 792*; Ce que produit la Côte d'Ivoire. J. Goulven, 792*; Guide du Commerce et la Colonisation à la, *n.*, 143; La pacification de la. A. Terrier, 392* ¶Maps of Ivory Coast: Colonne du Yaro. Lieut Ferrand, *n.*, 238; Colonne du Haut-Bandama, *n.*, 238

J

- Jackson, A. V. W., 698
- Jadrinzew, N., 944*
- Jaeger, F., 932*. See also Scheu, E.
- Jaja, G., 632*
- Jamaica: ¶Flora of Jamaica. Vol. 1. Orchidaceae. W. Fawcett and A. B. Rendle, 392* ¶Map: Part of Jamaica showing Relation of Earthquake damage to Erosion of Land, 935*
- James River Basin. M. R. Hall and J. G. Mathers, 710* ¶Charts of James R., 236*, 635*, 636*
- Janke, D. A., 480*
- Janssen, J., Monument to, 523
- Janssens, E., 553*
- Japan: ¶Climatic Changes in—since the Pliocene Epoch. M. Yokoyama, 394*; The Far East Revisited. Essays on Political, Commercial Conditions, etc. A. G. Angier, 940*; Farmers of Forty Centuries, etc. F. H. King, *rev.*, 360; Full Recognition of. Account of Economic Progress, etc. R. P. Porter, *rev.*, 301; Geographischen

- Grundlagen der japanischen Wehrkraft. K. Haushofer, 232*; Government Railways, 1909, *n.*, 625; Railways of, *n.*, 625; Die Japaner in der Weltwirtschaft. K. Rathgen, *n.*, 709; Kina och Japan. A. Strindberg, *n.*, 866; Letters from the Far East. [China and Japan]. Sir C. Eliot, 942*; Mineral Resources,—1908. K. Inouye, 150* Nachrichten über den Ausbruch des Vulkans Usu, 1910. H. Simotomai, 394*; Le Peuple Japonais. Le vieux Japon, le Japon actuel. J. Arnoux, *rev.*, 537; Prehistoric —. N. G. Munro, 945*; Prel. Note on the Geology of the Echigo Oil Field. T. Iki, 150*; Progress of India, Japan and China in the Century. Sir Richard Temple, 947*; Results of Harmonic Analysis of Tidal Observations made at Various Ports. S. Hirayama, 313*; Sériculture au Japon. E. de Bavier, 940*; Über Tarumai-Ausbruch in — 1909. H. Simotomai, 793*; Über Usu und Hokkaido und über einige andere Vulkane mit Quellkuppenbildung. I. Friedlaender, 793* Useful Notes and Itineraries for Travelling in, 227* **Q**Maps of Japan: Geological Map of Echigo Oil Field, 79*; Über einige Japanische Vulkane, *n.*, 937; Kartenskizze des Usu, *n.*, 937; Maps of Harbors equipped with tidal observatories, *n.*, 79; Three sheets of the topographic Map of, *n.*, 718; Sketch Map, 318* Japanese Empire: **Q**Atlas zur Geschichte der Kartographie der Japanischen Inseln, Nebst dem Holländischen Journal der Reise Mathys Quasts und A. J. Tasmans zur Entdeckung der Goldinseln im osten von Japan I. D. J. 1639 und dessen deutscher Überetzung. P. Teleki, *rev.*, 459 **Q**Maps: Japanese Empire, *n.*, 318 Mineral Distribution of Japanese Empire, *n.*, 718 Jastrow, M. Jr., 216 Jaumann, G., 876* Java: **Q**Life in Java. W. B. d'Almeida, 939*; Java, Sumatra and Other Islands of the Dutch East Indies. A. Cabaton, *rev.*, 217 **Q**Map: Sedoelang-Eilanden (Noordkust van Java) in 1884, 158* Jefferson, M., 622 Jenkins, S., 533 Jensen, H. I., 794* Jepson, W. L., 613 Jesus Christ, The Life of Our Saviour. J. J. Tissot, 947* Jews: **Q**Justice to the Jew. M. C. Peters, 229*; People of Israel; Their Numbers, Distribution, and Characteristics. V. Dinkelstedt, 876* Jimenez, C. P., 870* Jochelson, W., His Work in the Aleutian Islands, 521 Joerg, W. L. G., 838 Johnson, C., 55 Johnson, B. L., 927* Johnson, D. W., 868*, Personal, 292 Johnson, E. R., 790*; — and G. G. Huebner, 619 Johnson, H. R., 469* Johnson, P. H. See Brown, W. C. Johnson, S. V., 944* Johnston, Sir Harry, 389, 466* Jolly, S., 395* Jolo Island and Vicinity, Chart, 237* Jones, C. H. W., 867* Jones, E. L. See Umpleby, J. B. Jones, H. O., 874* Jones, J. P., 72* Jones, J. W., 468 Jones, W., 549* Jose, A. W., 787 Josephson, A. G. S., 145* Joubin, L., 560* *Journal of Anthropological Institute of Great Britain and Ireland*, 1871-1907, 948* *Journal of the Royal Asiatic Soc. of Great Britain and Ireland*, Nos. 1-15, 948* Juarros, D., 944* Judeich, W., 944* Jukes-Browne, A. J., 218, 863 Jumelle, H., et H. Perrier de la Bathie, 72* Jungfrau: **Q**Les chemins de fer de montagne dans les Alpes vers le sommet de la. A. Dauzat, 634*; Jungfrau Railroad, 523 Jungk, A., 73* Jura: **Q**Jura méridional. Étude de géographie physique spécialement adaptée au Bugey. J. B. Martin, 394*; Recherches spéléologiques et hydrologiques dans le Jura Franco-Comtois. E. Fournier, 314*; Aus dem Schweizer Jura. A. Hettner, 875* Jus, H., 944* Jutson, J. T., 313*
- K
- Kabylia: **Q**Les Monts Berbères. Kabylie et Aurès. Les tribus et les paysages. M. Boissard, 871*; On Randall-MacIvers' and J. L. Myres' "Toudja Series" of Kabyle Pottery. A. van Gennep, 871*

- Kahle, P., 315*
- Kairouan, Tunis, and Carthage. G. Petrie, 945*
- Kaiser, G., 477
- Kaiser Wilhelms Land. See also New Guinea, German: ¶ Reisen in Kaiser-Wilhelmsland. O. Schlaginhaufen, *rev.*, 617 ¶ Maps: Karte der Durchquerung des Hinterlandes von Finschhafen. G. Pilhofer, Fliert und H. Meier, 79*; Reise von Finschhafen nach dem Markhamfluss. G. Pilhofer & C. Barich, *n.*, 938
- Kaiserin Augusta, R. Map: Loop der Keizerin Augusta-rivier bij de grens van het Ned. gebied, *n.*, 158
- Kalahari: ¶ Ethnographische und geographische Ergebnisse meiner Kalaharireisen. R. Pösch, 791*; Topography and Geology of the German South Kalahari. P. Range, 792* ¶ Map: Die Kalahari mit ihren Völkern und Handelsrouten. R. Pösch, *n.*, 936
- Kaloorlie, Some Notes on Principal Geological Features of the — Goldfield. C. G. Gibson, 473*
- Kamchatka: ¶ Kamtschatka (Westküste). Capt. Hannig, 313*; Prel. Report on the Survey of the Waters of — in 1908-9. V. N. Lebediev, 873*
- Kamerun: ¶ Astronomische Orstbestimmungen in. Leut. von der Leyen, 312*; Bericht über den Stand der geologischen Erforschung von — im Mai 1910. O. Mann, 71*; Le Cameroun en 1910-11. C. Martin, 231*; Das deutsch-französische Kamerun-Kongo-Abkommen, 1911. H. Wichmann, 631*; Franco-German Territorial Arrangement, 631*; Négociations . . . relatives au Congo, 552*; Entwicklung des Exports in Togo und —. E. Kiemer, 149*; Ergebnisse der Regenmessungen, 1910, 393*; Manenguba-Hochland. F. Thorbecke, 393*; Mission Cottes au Sud-Cameroun (1905-8). Capt. A. Cottes, *rev.*, 697; Project de chemin de fer franco-allemand du Kamerun à l'Ubangi, 631*; Tikar. Bericht von der Forschungsreise der Deutschen Kolonialgesellschaft nach Kamerun. J. Thorbecke, 711* ¶ Maps of Kamerun: La "Coupure" projetée en Septembre 1911, *n.*, 157; Franco-German Congo Agreement, *n.*, 157; Kamerun-Kongo-Abkommen . . . vom 4 Nov., 1911, *n.*, 156; Manenguba-Gebirge, *n.*, 637; Die Neugestaltung Kameruns auf Grund des Marokko-Abkommens, *n.*, 637; Route de la Bénoué au Tchad, *n.*, 156; Sketch Map showing Cessions of Territory . . . Franco-German Treaty Nov., 1911, 157*; Stromgebiete des Mungo, Wuri, und Dibamba, *n.*, 637; Zone frontière Anglo-Allemande entre la rivière Cross et Yola, *n.*, 317
- Kandy and Peradeniya. H. W. Cave, 941*
- Kanin and Timan Tundras, Colonization and Industrial Development in the, 875*
- Kanitz, F., 944*
- Kano. An Old Hausa City. The Market Place at, 149*
- Kansas: ¶ Agriculture. Census 1910, 311*; The Conquest of. W. Phillips, 946*; Kansas Conflict. C. Robinson, 946*; Population, Census 1910, 147*; Prel. Report on Stream Pollution by Mine Waters in Southeastern. E. H. S. Bailey, 69*; Quality of Water Supply of. H. N. Parker, 69*; Relations of Missouri R. Loess Mantle and Kansan Drift-Sheet. C. R. Keyes, 469*
- Kansu, Map: ¶ Itinéraires du Dr. Stein et de R. B. Lal Singh et R. S. Ram Singh, *n.*, 318
- Kanuri Reading, including Facsimiles of MSS., Transliteration, etc., also . . . Vocabulary. P. A. Benton, 227*
- Kars, Skizze des Gefechtsfeldes bei, 400*
- Karst: ¶ Die landeskundliche Literatur der österreichischen Karstländer, 1905-08. N. Krebs, 633*
- Karst Phenomena: ¶ Het Kamaka Wallar, een Karstmeer op Nieuw-Guinea. J. F. Niermeyer, 150*
- Kasai, Land and Peoples of the. M. W. Hilton-Simpson, *rev.*, 457
- Kasaan Pen., Topography of (Map), 397*
- Kasbeck: ¶ Der Zariut-Choch in der westlichen Kasbekgruppe. W. Fischer, 395*
- Kashmir. Sir F. Younghusband, 948*
- Kāshmiri Language, Manual of the—comprising Grammar, Phrase-Book and Vocabularies. G. A. Grierson, *rev.*, 860
- Katanga: ¶ Chemin de fer portugais de Lobito vers le, 870*; Chemins de fer du Katanga, 312*; Colonisation agricole au, 791*; Le commerce du. M. Beak, 148*; Exploitation minière, 791*; Les Kundelungu. E. Deladrier, 148*; Situation au Katanga. H. Droogmans, 312*

- Katmai Volcano, Report of the Eruption of. I. M. Dailey, 641
- Katz, F. J., 868*; See also Martin, G. C.
- Käyser, C. C., 791*
- Keane, Augustus Henry, 389; *Obituary*, 210
- Keefe, H. L., 77*
- Keele, J. See Ries, H.
- Keele, T. W., 152*
- Keen, D., 868*
- Keewatin, Chez les Esquimaux du. R. P. A. Turquetil, 930*
- Keir, R. M., 582
- Keith, A., 776, 931*
- Keith, J. B., 232*
- Kellas, A. M., 872*
- Kellog, R. S. See Price, O. W.
- Kellogg, V. L., 145
- Kemp, J. F., 152*, 685, 868*
- Kemp, P. H. van der, 393*
- Kennard, H. P., 144; — N. Peacock, 626
- Kenngott, C. F., 389
- Kensington, W. C., 233*
- Kent, C. F., 781
- Kentucky. ¶ Agriculture, Farms, Live Stock, etc., Census 1910, 869*; Camp-ton Oil Pool. Oil and Gas Develop-ment. M. J. Munn, 470*; Petroleum and Natural Gas in. M. J. Munn, 868*; General Account of the Com-monwealth of, 940*; Kentucky Moun-tains. Transportation and Commerce, 1750 to 1911. Study in the Economic History of a Coal Field. M. Verhoeff, *rev.*, 779; Mammoth Cave of. With an Account of the Colossal Cavern. H. C. Hovey, *n.*, 786; Statistics of Manufactures, Census 1910, 550*; Population, Census 1910, 229*, 929* ¶ Maps of Kentucky: Gilbert Quad., 557*; Kosmosdale Quad., 556*; Pros-pect Quad., 877*; Map of Campton Oil Field, 558*; Sketch Map of Knox County showing location of Oil and Gas Pools, 558*; Topography of Jef-ferson County, *n.*, 877
- Kerguelen Island, Map to illustrate notes by T. Ring, *n.*, 879
- Kermack, W. R., 233*, 875*
- Kermadec Islands, Geology of. W. R. B. Oliver, 314*
- Kessner, C., 80*
- Keyes, C. R., 469*
- Kharga Oasis, Natives of the. A. Hrdlička, 522; *rev.*, 781
- Khartum; De Khartoum à Addis-Abe-ba. J. Parmentier, 630*
- Kiaer, A. N., 716*
- Kibo: ¶ Eine—Besteigung. M. Lange, 932*
- Kiefer, F. See Harris, J. T.
- Kieffer, L., 932*
- Kiel Canal, Widening the, 855
- Kilian, W., 474*
- Killebrew, J. B., 944*
- Kimberley: ¶ —und seine Diamanten-gruben mit besonderer Berücksichti-gung der Entstehung der Diamanten-lagerstätten. E. O. Rasser, 149*
- King, C. F., 309*
- King, F. H., 360
- King, W. J. H., 313*, 477
- Kinney, G., 914*; — & D. Phillips, 789*
- Kirchhoff, A., 944*
- Kisale, Le Problème du lac. Capt. Mauritzen, 631*
- Kitchen, T., 160*
- Klaehn, J., 315*
- Klaproth: See Rémusat, A.
- Klein, H. J., 864
- Klein, R., 314*
- Klemm, G. See Lepsius, R.
- Klippel, E., 472*
- Klotz, O., 930*
- Kmunke, R., 627
- Knapp, J. B. See Cline, M.
- Knibbs, G. H., 308*, 926*
- Knieriem, F., 554*
- Knight, E. F., 944*
- Knopf, A., 229*
- Knowles, F. A., 71*
- Knox, A., 300
- Knox, G. S., 792*
- Knox, R., 380
- Koch, J. P., 555*, 634*
- Koch-Grünberg, T., 78*, 552*
- Kodiak Island, Charts of Anchorages, 636*
- Koehler, C. See Rohbock, L.
- Kohistan, Panjkora: ¶ Summer Ex-ploration in. S. H. Godfrey, 872*; Map to illustrate route of, *n.*, 936
- Kohl, J. G., 632*
- Kohlschütter, E., 472*
- Kola Peninsula: ¶ Kolalapparnas ho-tade existens. G. Hallström, 395*
- Kordofan: ¶ Le chemin de fer du, 871*; Railroad connecting El Obeid with the Nile South of Khartum, 119 ¶ Map: Kordofan d'après les travaux anglais les plus récents, 317*
- Korea: ¶ Annual Reports on Reforms and Progress, 1907-10, 632*; The Far East Revisited. Essays . . . Condi-tions in Malaya, China, Korea and Japan. A. G. Angier, 940*; Farmers of Forty Centuries, etc. F. H. King,

- rev.*, 360; Flora Koreana. T. Nakai, 873*; The Hermit Nation. W. E. Griffiths, 943*; Pour les Moissonneurs. Mgr. Demange, 873*; The Story of Korea. J. H. Longford, *rev.*, 59
 ¶ Maps of Korea: Chosen and southern Manchuria, *n.*, 318; Map of Korea, 158*; The three "Han," The Three Kingdoms (about 600 A. D.), *n.*, 160
 Kossinna, G., 228*
 Kossmat, F., 312*
 Koudou-Djouah (Gabon et Moyen-Congo), Étude sur le pays. Debrand, 312*
 Kozlov, P. K., 318*
 Kraentzel, F., 474*, 554*
 Krain: See Carniola.
 Kraiss, A., 151*
 Kranz, W., 634*
 Krebs, N., 232*, 633*, 794*, 874*
 Krebs, W., 152*
 Kremer, A. de, 944*
 Kremer, E., 149*
 Krenkel, E., 866*
 Kretschmer, K., 395*, 622
 Kreutzbruck, O. v., 714*
 Krishtafowitsch, N., 795*
 Kriwoschein, A. W. See Stolypin, P. A.
 Kroeber, A. L., 69*
 Kuchinka, G., 159*
 Kuhn, P., 713*
 Kümmel, H. B., 928*
 Kundelungu, Les. E. Deladrier, 148*
 Kuntz, J., 933*
 Kurdistan, Maps: Reisen in Kurdistan 1910 (Three Maps). H. v. Handel-Mazzetti, *n.*, 937
 Kurile Islands: ¶ Aperçu sur les Isles Kouriles. M. Hutt, 150*
 Kyaw, F., 229*
 Kyle, H. M., 73*

 L
 Labatut, A., 471*, 631*
 Labrador: ¶ Among the Eskimos of. S. K. Hutton, *n.*, 624; Animal Sanctuaries in. W. Wood, 550*; Botanical Expedition to Newfoundland and Southern. M. L. Fernald, 550*; The Bryant Expedition to, 849; Labrador: Its Discovery, Exploration, and Development. W. G. Gosling, *rev.*, 129; Down North on the. W. T. Grenfell, *n.*, 211; Labrador, and Why one Goes There. W. B. Cabot, 311*; In Northern. W. B. Cabot, *rev.*, 531; Through Trackless. H. H. Prichard, *rev.*, 130
 Ladreit de Lacharrière, J., 792*
 La Flesche, F. See Fletcher, A. C.
 Laing, Major Gordon, and the Circumstances attending his Death. B. de Mézières, 397*
 Laing, R. M., See Speight, R.
 Lake City, Col., Geology and Ore Deposits near. J. D. Irving and H. Bancroft, 868*; Maps to illustrate, 154*
 Lakes: ¶ An Unregarded Factor in Lake Temperatures. E. A. Birge, 235*; Dichtunterschiede und Temperaturverteilung hauptsächlich der Binnenseen. A. Hamburg, 397*; Lebensgeschichte eines Strandsees. W. Halbfass, 315*; Neuere Daten zur Kenntnis der Warmen Salzseen. Bericht über die physikalische und chemische Untersuchung des Erwärmungsprozesses der Siebenbürger Salzseen. M. Rózsa, 474*
 Lal Singh, R. B., 318*
 Lallemant, C., 315*, 876*
 Lamb, W. A., Freeman, W. B., and Henshaw, F. F., 146*, 627*;— Freeman, W. B., and Others, 469*
 Lander, R. & J., The Travels of—into the Interior of Africa for the Discovery of the Course and Termination of the Niger. From unpublished Documents . . . Prefatory Analysis of Travels of Park, Denham, etc. R. Huish, 944*
 Land Forms: See Geomorphology.
 Landresse. See Rémusat, A.
 Landscape: ¶ Il paesaggio come Elemento geografico. A. Tedeschi, 228*
 Laney, F. B. See Paige, S.
 Lange, A., 466*
 Lange, M., 932*
 Langhans, P., 874*
 Languages: ¶ Die Hauptsprachen unserer Zeit. Mit einer Einleitung "Die wichtigsten Sprachen der Vergangenheit," usw. L. H. Schütz, *n.*, 787; Idiome Huichol. Contribution à l'étude des langues mexicaines. L. Diguët, 869*; Kanuri Readings, including Transliteration, &c. P. A. Benton, 227*; Kina och Japan. Studier af. A. Strindberg, *n.*, 866; Das Kolloquium über afrikanische Sprachen im Seminar für orientalische Sprachen zu Berlin. B. Struck, 874*; La langue des Boers. A. Lodewyckx, 71*; Languages spoken in Western Pamir (Shugnan and Vakhani). A. Hjuler, 793*; Studien zur Laut- und Formenlehre der Mehri-Sprache in Südarabien. M. Bittner, 872*; Uitótí-Indianer. Weitere Beiträge zu ihrer Sprache. T. Koch-Grünberg, 552*

- Lankester, Sir E. Ray, 865
 Laos: ¶Au—et au Siam. M. Bassenne, 873; Étude sur le Laos. Commandant Cousin, 313; Le Laos. L. de Reinach, *rev.*, 615
 La Paz, Another Link from — to the Sea. G. Fortescue, 930* ¶Map: Um-legend von La Paz, 78*
 La Pérouse [Jean-François de Galoup], Native Account of Meeting between — and the Tlingit. G. T. Emmons, 315*
 Lapeyrière, J., 232*
 Lapique, P. A., 872*
 Laplanders: ¶Kolalapparnas hotade existens. G. Hallström, 395*
 La Plata Estuary: ¶Über-Meeressströmungen zwischen Kap Horn und der la Plata-Mündung. J. Klæhn, 315*
 Lapworth, C., and Zimmern, H., 921
 Laroze, J., 633*
 Larsen, E. S. See Diller, J. S.
 La Sal Mts., Notes on the Northern. J. M. Hill, 927*
 Láska, V., 397*
 Latham, H., 791*
 Latter Day Saints: See under Mormons.
 Laughton, A. M., 143*
 Launay, L. de., 535, 944*
 Lautensach, H., 794*
 Laverrenz, C., 945*
 Lavoix, J., 792*
 Layer, E., 871*
 Lead: Output of Certain Minerals and Metals in the World, 234*
 Leaf, W., 793*, 798*, 937*
 Leary, L. G., 548
 Leathes, S. See Ward, A. W.
 Leavenworth and Vicinity, Map, 398*
 Lebanon, Recollections of the Druses of the. Earl of Carnarvon, 941*
 Lebesgue, P., 474*
 Lebediev, V. N., 873*
 Lecky, W. E. H., 944*
 Leclercq, J., 390*
 Le Cointe, P., 551*
 Lee, I., 234*
 Lee, L., 633*
 Lee, Robert Edward, Life and Letters of—Soldier and Man. J. W. Jones, *n.*, 468
 Lee, W. T., 627*, 928*
 Lee-Warner, Sir William, 58
 Leffingwell, E. DeK., Personal, 689
 Legendre, Dr., 158*, 472*, 473*, 553*
 Legrand, R., 931*
 Lehmann, A., 554*
 Lehmann-Nitsche, R., 870*
 Lehmann, W., 551*
 Leighton, M. O., 392*
 Leiter, H., 772
 Leith, C. K. and Hall, C. H., 76*; — and Zupffe, C., 76*; See also Van Hise, C. R.
 Lejeune, R. P., 553*
 Lemarec, Y., 874*
 Lemoine, P., 72*, 785
 Lemprière, W., Souvenirs du Chirurgien —. Le Maroc il y a cent ans. Annotés . . . A. Savine, 143*
 Leon, Fla., The Lands of. J. H. Reese, 229*
 Leonard, A. G., 69*, 469*
 Léopoldville, Maps: ¶—en 1889, en 1910, 156*
 Lepeszyński, A. and B. Dobrynin, 626*
 Leppla, A., 151*
 Lepsius, C. R., 948*
 Lepsius, R., Klemm, G., and Others, 151*
 LeRoy, O. E., 930*
 Leuchs, K., 553*
 Leucite Hills, Wyo., Potash-Bearing Rocks of the. A. R. Schultze and W. Cross, 869* ¶Map: Location of Potash Rocks and topographic relief of, (10 maps), 636*
 Lewis, H., 235*
 Lexicons: See under Dictionaries.
 Leyen, Leut. von der, 312*
 Liberia: ¶La frontière Franco-Libérienne. L. Peyrissac, 630*; Les frontières de la Guinée Française, de Sierra Leone et du. A. Terrier, 931*; Une tournée en Libéria. P. Garcia, 72*; Dr. Volz. Reise durch das Hinterland von — im Winter 1906-7. Nach seinen Tagebüchern bearbeitet von R. Zeller, *rev.*, 378 ¶Maps of Liberia: Croquis montrant la frontière franco-libérienne, 317*; Explorations de M. W. Volz et C. Braithwaite-Wallis, 317*
 Libya, Italian: See Tripoli.
 Libyan Desert: ¶A Journey in the. G. Sykes, 721; Libyan Desert. W. J. H. King, 313* ¶Map: Part of the Desert from route surveys of W. J. H. King, *n.*, 477
 Lichtenheld, G., 475*
 Liepe, H., 152*
 Liger, E., 145*
 Liguria: ¶La pioggia nella regione ligure, 713*
 Lilienberg, V. E., 312*
 Limnology: See Lakes.
 Lindgren, W., 69*, 908*
 Lindsay, F., 307*
 Lindsay, G. A., 928*
 Linke, F., 224; — & J. Clössner, 703

- Linstow, O. v., 151*
- Lipari Islands: ¶ Die äolischen Inseln. A. Wurm, 314*
- Lippe, Maps: ¶ Umgebung der Mineralquellen von Germate bei Warburg, 560*; Umgebung der Solquellen von Calldorf in Lippe, 560*
- Lissa, Posen, Maps illustrating "Über den Verlauf der Endmoränen bei — zwischen Oder und russischer Grenze," 639*
- Livingstone Channel, Opening of, 849
- Lloyd, A. R., 143*
- Lloyd, J. E., 390*
- Lloyd, L. C. See Bleek, H. I.
- Loat, W. L. S. See Ayrton, E. R.
- Lobito Railroad, 609
- Lockyer, W. J. S., 716*
- Lodewyckx, A., 71*
- Logan, W. N., 627*
- Loir, A., 933*
- Loire: ¶ La—: Étude de Fleuve. L. Gallouédec, *rev.*, 219
- Lombardy, Oldest Map of. R. Almagià, 454
- London: ¶ Hot July and August of 1911 in, 395*; The Making of. Sir Laurence Gomme, *n.*, 625; The Tower of London. C. H. Hopwood, 714*; East London, (Cambridge County Geographies). G. F. Bosworth, 390*
¶ Map: Electric Railways of London, *n.*, 798
- Longford, J. H., 59
- Long Island Sound: ¶ Notes on an Early Chart of—and its Approaches (circa 1720). C. H. Townshend, 948*
¶ Charts: Three Charts of North Shore of, 236*
- Longstaff, T. G., 872*
- Lönnberg, E., 312*
- Lorentz, H. A., 150*
- Los Angeles Harbor and Vicinity, Chart, 236*
- Lötschberg Tunnel: ¶ Durchschlag des Löschbergtunnels, 74*
- Loughlin, G. F., 628*; See also Barrell, J.
- Louisiana: ¶ Agriculture. Farms, Live Stock, etc., Census 1910, 869*; Population, Census 1910, 229*; Results of Spirit Leveling, 1896 to 1909, Inclusive. R. B. Marshall, 69*; Statistics of Manufactures, Census for 1910, 869*
¶ Maps of Louisiana: Lake Providence Quad., 398*; Charts, 236*
- Lourenço Marques: ¶ Delago Directory, 1911, *n.*, 58
- Love, C., 930*
- Love, E. N., 628*
- Löwe, F., 795*
- Lowell, Mass: ¶ The Record of a City. A Social Survey of Lowell. G. F. Kenngott, *n.*, 539
- Lowell, P., 866*
- Lowie, R. H., 628*
- Lucas, E., 393*
- Lucerna, R., 397*
- Ludwig Salvator, Archduke, 315*
- Luigi, G. de, 787*
- Lukis, E. du B., 552*
- Luks, H. T., 944*
- Lukuga, Exploration de la rivière —, émissaire du Tanganika. J. Schwetz, 932*
- Lull, R. S., 876*
- Lumholtz, C. and I. N. Dracopoli, 930*
- Lüneburg: ¶ Lüneburger Heide. K. Olbricht, 233*
- Lütgens, R., 235*, 551*, 715*
- Luther, D. D., 628*
- Lutzu, Through—Country to Henkong. F. K. Ward, 872*; Map showing route of, *n.*, 638
- Luxemburg, Handbook to Belgium including Luxemburg, 867*
- Luzon: ¶ Additional Notes on the Economic Geology of the Baguio Mineral District. W. D. Smith and F. T. Eddingfield, 554*; Geologic Reconnaissance of S. E. Luzon. G. I. Adams and W. E. Pratt, 554*; Head-Hunters of Northern Luzon. D. C. Worcester, 873*; Seismotectonic Lines in Southern, 873*; Theory on the Formation of Central — Plain. R. Herrmann, 232*
¶ Charts of Harbors and ports, on the S. E. and W. Coasts, 237*
- Lyell, Sir Charles, 944*
- Lyons, G., 215
- Lyons, H. G., 368, 787*

M

- Macalister, R. A. S., 625*
- McAttee, W. L., 229*
- McCallum, A., 626*
- Macauley, M. E. See Beckwith, F.
- MacClintock, S., 313*
- McClure, E., 144*
- McCord, J. B., 472*
- McCormac, E. I., 396*
- McCormick, F., 473*
- McCormick, R. R., 628*
- McDonnell, A. C., 865
- Macdougall, D. T., 391*, 868*
- McDougall, E. M., 787*
- Macedonia: ¶ Makedonien und Alt-Serbien. S. Gopčević, 945*
- Macfarlane, C. T., 628*

- Macfarlane, J. J., 392*, 470*, 628*, 788*, 795*, 928*
- McGee, G. R., 309*
- McGee, W. J., 146*; *Obituary*, 691
- McGlashan, H. D. See Clapp, W. B.
- Macgowan, J., 944*
- M'Gregor, W. L., 944*
- McGroarty, J. S., 777
- Machatschek, F., 872*
- Mackay, G. W., 72*
- Mackay-Little, D. & W. S., Route and Exploration of — in Southern New Guinea (Map), *n.*, 80
- Mackie, A., 144*
- Mackie, H. G., 869*
- Mackinder, H. J., 143*
- McKinley Mount: See Mount McKinley.
- McLaughlin, A. C. and Van Tyne, C. H., 226*
- McMillan, E. M., 234*
- Macmillan's (D. B.) Arctic Plans, 917
- McMurray, F. M. and R. S. Tarr, 229*, 866*
- McNab, R., 540, 944*
- McPherson, L. G., 785
- MacRitchie, D., 875*
- McTurk, M., 471*
- Madagascar:** ¶ Culture du manioc. Inspecteur Fauchère, 231*; La culture du riz à. L. Galtié, 871*; Développement économique de—depuis l'occupation française. P. Chemin-Dupontès, 231*; Documents sur l'histoire, la géographie et le commerce de la partie occidentale de. M. Guillaïn, 943*; Guide-annuaire du gouvernement général de — et Dépendences, 708*; Histoire physique, naturelle et politique de. A. Grandidier, 943*; La houille blanche à. Bonnefond, 72*; Madagascar en 1910, 711*; Madagascar et Dépendences, Statistiques, 231*, 871*; — et ses habitants. A. Grandidier, 943*; Mines d'or de la région d'Andavakoera. A. Bordeaux, 72*; Notes sur des recherches d'eau dans le Sud-Ouest. G. Carle, 149*; Notes sur la vallée permo-triasique et le contact des terrains métamorphiques et des terrains sédimentaires dans l'Ouest de. H. Perrier de la Bathie, 149*; Le palmier à huile de. H. Jumelle et H. Perrier de la Bathie, 72*; Rapport sur le fonctionnement du Service des Mines en 1909 à, 231*; Le service Géographique de Madagascar suspended, 452 ¶ Maps of Madagascar: Bassin inférieur de la Mamba, 78*; Esquisse d'une carte tectonique de l'Ouest, *n.*, 78*; Les mines d'or d'Andavakoera, 78*
- Maddren, A. G., 788*, Personal, 530
- Madeira & Mamoré, R.R., 230*; Progress on, 48
- Madrolle, Cl., 944*
- Maeso, C. M., 375
- Magdalena, Rio: See Rio de la Magdalena.
- Magellan, Strait of: ¶ The Toll of the Straits. Stories of Storms and Castaway Crews in the Fuegian Archipelago and the Patagonian Channel. C. W. Furlong, 311*
- Magic and Religion: ¶ The Golden Bough. Study in Magic and Religion. J. G. Frazer, Part I, *rev.*, 543; Part V, 787*
- Magnetism, Terrestrial: ¶ Aard-Magnetisme, 716*; Annales de l'Observatoire Physique Central Nicolas, 1908, 874*; Annual of the Meteor. and Magn. Observatory of the Imp. Univ. at Odessa, 1910, 874*; Comparisons of Magnetic Observatory Standards by Carnegie Institution. J. A. Fleming, 152*; Magnetic Survey Work of the —, 291; Distribution of Magnetic Declination in the U. S. for Jan. 1, 1910, with Isogonic Chart and Secular Change Tables. R. L. Faris, 469*; Erdmagnetische Störungen im Ostseegebiet. W. Krebs, 152*; Erdmagnetismus, ein Stiefkind des geographischen Unterrichts. O. Baschin, 235*; Magnetic Chart Errors and Secular Changes in the Indian Ocean. L. A. Bauer and W. J. Peters, 152*; On the Magnetic Field of the Earth. L. Steiner, 715*; Peculiar Magnetic Disturbances of Dec., 28-31, 1908. R. L. Faris, 152*; Report... the Sixth Meeting of Commission for Terrestrial Magnetism and Atmospheric Electricity, 716*; Studies in Terrestrial Magnetism. C. Chree, *n.*, 626, *rev.*, 706; ¶ Coast and Geodetic Survey: Results of Magnetic Observations made by the. 1910-11. R. L. Faris, 391*; Results of Observations made by the — at Magn. Obs. at Baldwin, Kan., 1907-1909. D. L. Hazard, 69*, for 1909-10, 868*; at Vieques, Porto Rico, 1907-8. D. L. Hazard, 471*, 1909-10, 700*, at the Time of Solar Eclipse of April 28, 1911. O. H. Tittmann, 715* ¶ Map: Hypothetische Darstellung der Verteilung der magnetischen Abweichung

- im Atlantischen Ozean um das Jahr 1500. F. Nansen, 240*
- Mahogany: ¶Die Mahagonisorten des Handels geordnet nach den einzelnen Produktionsgebieten und ihrer botanischen Abstammung. P. Busch, 234*
- Maiden, J. H. and R. H. Cambage, 150*
- Maine: ¶Agriculture. Farms, Live Stock, etc., Census 1910, 147*; Clay in the Portland Region. F. J. Katz, 868*; Population, Census 1910, 147*; Statistics of Manufactures, Census 1910, 929*; Water Resources of Penobscot R. Basin. H. K. Barrows and C. C. Babb, 627* ¶Maps of Maine: Kezar Falls Quad., 398*; Livermore Quad., 877*; Map showing Penobscot Drainage Basin, n., 796; Charts: Cape Neddick Harbor to York River, 796*; Monhegan Island to Cape Elizabeth, 635*, Penobscot Bay, 235*
- Mairwara, Sketch of. C. J. Dixon, 942*
- Maistre, 944*
- Maitland, A. G., 473*
- Majorca: ¶Die Felsenfesten Mallorcas. [Archduke Ludwig Salvator], 315*; Voyage à l'île Majorque. J. Leclercq, n., 390
- Malaria, Campaign against. R. Ross, 234*
- Malay Archipelago: ¶Barrière-Riffen en Atollen in de Oost-Indiese Archipel. J. F. Niermeyer, 313*; Zoogeography of East Indian Archipelago. P. N. Van Kampen, 72* ¶Maps: Karte des Südöstlichen Asiens nach Ptolemäus, n., 480; Südost Asien, n., 480; Sixteen Maps entitled "Barrière-Riffen en Atollen in den Oost-Indischen Archipel, n., 158
- Malay Peninsula: ¶Expansion of British Influence in the. T. H. Reid, 394*; Pagan Races of the. W. W. Skeat and C. O. Blagden, 947*
- Malay States: ¶The Far East Revisited. Essays on . . . Conditions of Malaya, China, etc. A. G. Angier, 940*
- Malcolm, Sir John, 944*
- Malcorra, A. Z. de, 944*
- Mallet, Capt., 399
- Malloch, G. S., 311*
- Mallorca: See Majorca.
- Mamberamo, Expedition zur Erforschung des—in Holländisch Neu-Guinea. M. Moszkowski, 794*
- Mammoth Cave of Kentucky. With an Account of the Colossal Cavern. H. C. Hovey, n., 786
- Man. See also Anthropology: ¶Animals and Man. Elementary Text-book of Zoology and Human Physiology. V. L. Kellogg, n., 145; Antiquity of Man. A. Keith, 776; Eiszeit und Urgeschichte des Menschen. H. Pohlig, 709*; Evolution of man. G. E. Smith, 876*; Glacial Man, 876*; Influence of Gold and Silver Mining upon the Character of Men. G. D. Hubbard, 396*; Kulturelemente der Menschheit. K. Weule, *rev.*, 702; Die Kultur der Kulturlosen. K. Weule, n., 868; The Mind of Primitive. F. Boas, *rev.*, 64; Prehistoric Man. W. L. H. Duckworth, n., 467; Die tierische Abstammung des Menschen. K. Ungar, 234*; Uomo secondo le origini, l'antichità, le variazioni e la distribuzione geografica. G. Sergi, n., 926; Der Ursprung des Menschen, usw. A. Schmitt, n., 391; Zwergvölker und Zwergwuchs. R. Pösch, 876*
- Man, Isle of: See Isle of Man.
- Manabi, Antiquities of. M. H. Saville, 625*
- Manchuria: ¶—'s Great Southern Port, 49 ¶Map: Chosen and Southern Manchuria, n., 318
- Manhattan Indians. A. Skinner, 928*
- Manila Bay to Formosa, Chart, 237*
- Manila Central Observatory, Bulletins of the—for Jan.-Dec., 1911, 793*
- Manitoba, Municipal History of. A. C. Ewart, 930* ¶Map: Grenzerweiterungen der Provinzen Quebec, Ontario und Manitoba, n., 934
- Mann, O., 71*
- Manning, V. H., 76*
- Manouchi, M., 944*
- Manring, B. F., 777
- Mansfield, G. R. See Richards, R. W.
- Mansûr, A. (G. W. Bury), 380
- Manti National Forest, Conditions in—Grazing and Floods. R. V. R. Reynolds, 928*
- Maori: ¶The—and the Moa, 233*; Wirtschaftsorganisation der Maori auf Neuseeland. W. v. Brun, n., 867
- Maps. See also Atlases, Charts, and Cartography: ¶Descriptive Catalogues of Maps. Sir Herbert G. Fordham, n., 468; Handschriftliche Karten der Pariser National-Bibliothek. K. Kretschmer, 395*; Wie ich Karten lesen lernte. K. C. Rothe, 876*; Lösung des Zweihöhenproblems in der

- Karte. A. Wedemeyer, 395* Maps and Map-making. C. C. Adams, 194; Map Reading. H. N. Francis, 210; Plane table in detailed Geologic Mapping. D. F. Higgins, 876*; Oxford Outline Maps, *n.*, 720; Das Prinzip der Beleuchtung unserer Landkarten. J. G. Rothaug, 634*; Representation of Relief on Maps. H. G. Lyons, 787*; Stumme Karten und Kartenskizzen. J. G. Rothaug, 634*; Thermal Maps. A. J. Herbertson, 123; Vogelsch.-Bild und Karte. J. G. Rothaug, 634*; Wirtschaftsgeographische Karten. K. Preissler, 634* ¶ Aviation Maps: Carte et repères aéronautiques. C. Lallemand, 876*; Internationale Luftschiffkarte. K. Peucker, 395*; Luftschiffahrt und Landkarte. K. Peucker, 876*; Verfahren zur Herstellung farbenplastischer Darstellung, insbesondere Karten (Flugkarten). K. Peucker, 395* ¶ Historical Maps: Egerton Map of Early American Discoveries. O. A. Derby, 315*; John Cary, Engraver and Map-seller, 1769-1836. Sir Herbert G. Fordham, 293; Nord-westlicher Teil der Karte des Juan de la Cosa aus dem Jahre 1500, 240*; Teil der Karte des Pedro Reinel, 240*; Oldest Map of Lombardy (1556). R. Almagià, 454; Sections from three maps showing the mouth of the Amazon: Egerton Map, Juan de la Cosa Map, Diego Ribeiro (1529), 80* ¶ Intern. Map of the World: Development and State of Progress of the United States Portion of the. W. L. G. Joerg, 838; Projection for International Map of the World, 634*
- Maps, New:
- North America, 74, 153, 235, 316, 397, 475, 556, 635, 746, 796, 878, 933
 - Central America and West Indies, 156, 237, 399, 797, 935
 - South America, 78, 156, 317, 476, 717, 798, 935
 - Africa, 78, 156, 238, 317, 399, 476, 558, 637, 717, 798, 879, 936
 - Asia, 79, 157, 238, 318, 399, 478, 559, 638, 717, 798, 936
 - Australasia and Oceania, 79, 158, 239, 478, 560, 638, 718, 798, 879, 938
 - Europe, 80, 158, 239, 319, 400, 478, 560, 639, 719, 798, 879, 938
 - Polar, 159, 480, 560, 640, 720, 879
 - World and Larger Parts, 80, 160, 239, 320, 400, 640, 719, 799, 938
- Atlases, 799, 879
- Cartographical, 80, 160, 240, 939
 - Educational, 240, 640, 720
 - Historical, 80, 160, 240, 320, 400, 480
 - Oceanographical, 80, 160, 240
- Mar caibo, Lake and City of. R. J. Totten, 552*
- Maravanu, Das Ende des — Ausbruchs auf Savaii. K. Sapper, 394*
- Marchetti, R., 944*
- Marc-Schrader, L., 871*
- Marek, R., 73*, 876*
- Marett, R. R., 467
- Marge, P., 143*
- Marinelli, G., 944*
- Markert, F., 73*
- Markham, Sir Clements R., 555*, 714*, 858
- Markov, E., 393*
- Marks, E. O., 394*, 794*
- Marlborough Country. Notes Geographical, Historical and Descriptive. H. C. Brentnall and C. C. Carter, *n.*, 926
- Marr, N. J., 874*
- Marriott, W., 145*, 234*; See also Fowler, J. S.
- Marshall, R. B., 69*, 146*, 147*, 310*, 311*, 470*, 628*, 788*, 928*
- Marson, L., 395*
- Martel, E. A., 234*, 311*, 474*; — Notice sur les Travaux scientifiques de, 397*
- Martin, A. G. P., 393*
- Martin, C., 231*, 932*, 933*
- Martin, E. E., 69*
- Martin, G. C. and F. J. Katz, 549*, 868*
- Martin, I. T., 786*
- Martin, J. B., 394*
- Martin, L., 935*, — in Alaska, 46
- Martin, P. F., 455
- Martinelli, G., 626*
- Martonne, E. de, 944*
- Martyn, W. F., 944*
- Maryland: ¶ Agriculture, Census 1910, 311*; Lower Cretaceous Deposits of. W. B. Clark, A. B. Bibbins and E. W. Berry, 449, 627*; Manufactures, Statistics, 1910, 869*; Population, Census 1910, 147*; Prince George's County, 629*; Report on Lines of Equal Magnetic Declination in — for 1910. L. A. Bauer, 549*; Summary Final Report on the Work the Highway Division of Md. Geol. Surv. 1898-1910. W. B. Clark, 627*; Report on Iron Ores, with account of Iron Industry. Singlewald, J. T., 450, 628*; Third Report on State Highway Construction, 1908-10. W. W. Crosby,

- 627* **¶** Maps of Maryland: Choptank Quad., 878*; Hagerstown, Quad., 934*; Drainage Map of Pawpaw and Hancock Quads., showing the "trelis" arrangement of the streams, 398*; Relief Map of Cumberland Valley, Appalachian Valley ridges, etc., *n.*, 155; Charts 236*, 635*
- Masai: **¶** Sagen, Mythen, und Sitten der. H. Fuchs, 942*
- Masbate: **¶** Geology and Mineral Resources of Aroroy District. H. G. Ferguson, 554* **¶** Charts of Harbors on the Coast of, 237*
- Maspero, Sir G., 944*
- Masqueray, E., 944*
- Massachusetts: **¶** Agriculture, Census, 1910, 311*; — of To-Day. T. C. Quinn, 946*; Statistics of Manufactures, Census 1910, 929*; Supplementary Notes on Commercial Granites of. T. N. Dale, 627* **¶** Charts: Five Charts of Bays and Harbors, 236*
- Massány, E., 315*
- Massignon, L., 945*
- Matanuska Valley, Alaska, Geology and Coal Fields of the Lower. G. C. Martin and F. J. Katz, 549*
- Matavanu: **¶** — auf Sawail am 9. April 1911. W. Grevel, 314*; Matavanu Volcano Quiescent. K. Sapper, 208
- Mather, Cotton, Diary of, 945*
- Mather, K. F. See Atwood, W. W.
- Mathers, J. G. See Freeman, W. B. & Hall, M. R.
- Mathews, R. H., 150*
- Matlekovits, A. v., 944*
- Matson, G. C., 868*
- Matthes, F. E., 334
- Matto Grosso, Map: **¶** Les explorations de 1910 dans la Bolivie et le Matto Grosso, *n.*, 317
- Mau, A., 945*
- Maurer, J., and J. Früh, 635*
- Mauritania: **¶** Contribution à la carte de Mauritanie. R. Chudeau, 871*; Les Méharistes en —. Lt.-Col. Patey, 231*; Les ressources agricoles de la. R. Chudeau, 871*
- Mauritzen, Capt., 631*
- Maur, M. J., 553*, 870*
- Mawson's Antarctic Expedition, 918
- Maxwell, H. See Hall, W. L.
- Maxwell, Sir Herbert, 467*
- May, W., 866*
- Mayer, A. G., 397*
- Maynard, T. P., 928*
- Maynas: **¶** Breve noticia geográfica é histórica. B. Beltrán y Rózpide, 551*
- Mayr, M., 870*; — & E. Sneath, 717
- Meade, General Sir Richard. T. H. Thornton, 947*
- Mears, F. C. See Geddes, P.
- Mecca, Pilgrimage to, 369
- Mecking, L., 876*
- Mecklenburg, Duke Adolphus Frederick of, 631*
- Mecklenburg, Map: **¶** Die Mecklenburgische Schweiz, 319*
- Mediterranean Region: **¶** Europe and the. J. B. Reynolds, *n.*, 63; Der Kampf und die Herrschaft im Mittelmeer. P. Herre, 943*; The —. Its Storied Cities and Venerable Ruins. T. G. Bonney, H. D. Traill, and Others, *n.*, 787; Mediterranean. E. W. Heaton, 310*; Seaports and Sea Routes including Madeira, Canary Islands, etc. Handbook for Travellers. K. Baedeker, *n.*, 146 **¶** Maps: Mediterranean Region and the Nearer East, Maps, *n.*, 320; Region of the — and Near East, *n.*, 400; Tripolis and das östliche Mittelmeer, Schauplatz des italienisch-türkischen Konfliktes, *n.*, 320
- Meharists: **¶** Les Méharistes en Mauritanie. Lt.-Col. Patey, 231*
- Meier, H. See Pilhofer, G.
- Meinzer, O. E., 69*, 311*; See also Hale, C. W.
- Meister, A. K., 873*
- Meistermann, B., 68*
- Melanesia: **¶** Islands of Enchantment. Many-Sided Melanesia. F. Coombe, *rev.*, 540 **¶** Map: Melanesia to illustrate Paper by H. R. Rivers, *n.*, 879
- Melbourne, Port Philip mit den Häfen — und Geelong, 633*
- Meldorf, G., 74*
- Melland, F. H., 149*
- Mellor, E. T., 393*, 793*
- Melrakkasjetta, Islands nördlichste Halbinsel. H. and E. Erkes, 74*
- Melville Island, Sketch Map of southern portion of, 159*
- Melville, Rear-Admiral George W., *Obituary*, 370*
- Menam River, Survey of the Mouth of the, 609
- Mendoza, J. Gonzalez de., 945*
- Meniaud, J., 312*
- Menkong, Through Lutz Country to. F. K. Ward, 872*
- Menomini, Comparative Sketch of the. A. Skinner, 470*
- Menzel, H., 151*
- Mercatelli, L., 314*
- Merchant Marine, History of: **¶** Ge-

- schichte der Handlung und Schifffahrt der Alten. P. D. Huet, 943*
- Merchier, A., 551*
- Mercier, Capt., 710*
- Mercinier, E., 392*
- Merian, M., 945
- Merlin, M., 312*
- Meroe, The Island of: ¶ Meroitic Inscriptions. W. J. Crowfoot and F. L. Griffith, 942*
- Merriam, J. C., 147*
- Merriam, W. N., and W. O. Hotchkiss, 77*; — and M. H. Newman, 76*
- Merrimac R. Drainage Basin. H. K. Barrows and Others, 468*
- Merton, H., 922
- Merz, A., 554*, 713*, 874*
- Mesa Verde, Geographic Study of. W. W. Atwood, 593, 627*
- Mesa Verde National Park, Antiquities of. J. W. Fewkes, 69*
- Mesopotamia: ¶ Irrigation of. Sir W. Willcocks, *rev.*, 701; Österreichische Expedition . . . 1910. V. Pietschmann, 149*; Studie zu Dr. Pietschmanns Photogrammetrischen Aufnahmen in —1910. I. Tschamler, 313* ¶ Map: Lower Mesopotamia. Sir W. Willcocks, *n.*, 937
- Metals, Influence of the Presence, Discovery and Distribution of the Precious—in America on the Migration of People. G. D. Hubbard, 97
- Meteorites: ¶ Meteorite of El Nakhla el Baharia. J. Ball, 792*
- Meteorology. See also Atmosphere, Climate, Temperature, Weather, etc: ¶ Aeronautische Meteorologie. F. Linke, *n.*, 224; Connection between hydrographical and meteorological phenomena. O. Pettersson, 876*; Cyclonic Movements in the Arctic. E. Vincent, 690; Drought and Buildings, 293; "Frost Cartridges," 125; Frost forecasting and protection, 611; Hints to Meteorological Observers. W. Marriott, 145*; Klimaschwankungen und Völkerwanderungen im 19. Jahrhundert. E. Brückner, 876*; Measurements of Dew, 612; Meteorologia Agricola. G. Costanzo and C. Negro, *n.*, 145; — and Physical Geography. W. N. Allen, 715*; —. Text-Book on the Weather, Causes of its Changes, and Weather Forecasting for the Student and General Reader. W. I. Millham, *rev.*, 463; — at the British Association, 235*; Obstacles to the Progress of. C. Abbe, 396*; Photographing Red Snow in Natural Colors, 293; Report of the Ninth Meeting of Intern. Meteor. Comm., etc., 716*; Are there Equinoctial Storms? J. H. Morrison, 709*; Thermal Maps. A. J. Herbertson, 123; Tratado de Meteorologica. A. Arcimis, 234*; Vorläuf. Bericht über die meteor. Beobachtungen der Deutschen Antarktischen Exped. auf der Fahrt von Hamburg bis Buenos Aires. E. Barkow, 715*; Der wetterkundliche Unterricht. F. Linke and J. Clössner *rev.*, 703; Witterungscharakter an der Gauss-Station und die Fragen der südhemisphärischen Zirkulation. L. Mecking, 876*; Wind-blown Trees. O. Burchard, 692
- Mettrier, M. H., 874*
- Mexico: ¶ Las aguas subterranas en el borde meridional de la cuenca de. J. D. Villarello, 70*; Arbeiterverhältnisse in den Kaffeepflanzungen Süd-Mexikos. P. Furbach, 789*; Beyond the—Sierras. D. Wallace, *n.*, 56; Bol. de Estadística fiscal 1910-11, 630*; Commerce of—1911, 789*; États-Unis du Mexique. M. de Périgny, *rev.*, 373; —. A General Sketch, 142*; Mexico in 1910, 70*; Memoria . . . presenta á la Sociedad Mexicana de Geografía y Estadística . . . 1910 á 1911. F. Belmar, 630*; Aus Mexiko. O. Holm, *rev.*, 372; Idiome Huichol. Contribution à l'étude des langues mexicaines. L. Diguët, 869*; Through Southern. H. Gadow, *rev.*, 131; Une traversée du Mexique méridional. L. H. Quarles van Ufford, 789* ¶ Maps of Mexico: Five State Maps. H. A. Horsfall, *n.*, 935; Gray's New Railway System Map of the U. S., Canada, and Mexico, *n.*, 155; Karte der Bevölkerungsdichte. E. Wittich, 78*; Mexique, *n.*, 399
- Mexico, Gulf of: ¶ Western —, 1909. W. B. Freeman and R. H. Bolster, 469*; in 1910. W. B. Freeman and J. G. Mathers, 469* ¶ Charts of the Coasts, 236*, 796*
- Meyer, C., 945*
- Meyer, H., 632*
- Meyers Grosses Konversations-Lexikon, New Ed. Vol. 23, 391*
- Meynier, O., 466*
- Mézières, B. de, 397*
- Michels, Abel des, 945*
- Michigan: ¶ Agriculture, Census 1910, 311*; Iron Ore Reserves of, 286; Population, Census 1910, 147*; Railroads, Industries and Distribution of Population in. A. E. Parkins, 147*;

- Statistics of Manufactures, Census 1910, 929* **¶** Maps of Michigan: Geologic Maps: Dead River Area. A. E. Seaman, 76*; Calumet District. C. K. Leith, W. S. Bailey, & Others, 76*; Crystal Falls District, etc., *n.*, 76; Iron River District. R. C. Allen, 76*; Keweenaw Point District, 76*; West end of Marquette District. W. N. Merriam and M. H. Newman, 76*; Menominee Iron District. E. C. Bebb, A. T. Fowler, and Others, *n.*, 76; Peneke-Gogebic District. C. R. Van Hise and R. D. Irving, *n.*, 77; Maps accompanying "Geology of Lake Superior Region," 75*; Mason Quad., 556*; Glaciated Valley of Portage Lake on Keweenaw Point . . . with hanging valley of Huron Creek, 77*; Lake shore escarpment of Archean schists and Huronian quartzite near Marquette, 76*; Perch Lake District showing Distribution of Outcrops. Van H. Manning, 76*; Outcrop Map of Swanzy District, 76*; Sketch map to show general relations of iron-bearing rocks, principally upon Huronian in Crystal Falls, etc., 76*; Typical Monoclinical ridge topography, Isle Royal, 76*
- Michigan Lake, Map: **¶** Grays Reef Passage showing new Shoal and amended sailing Courses, 77*
- Mickel, 72*
- Micmac Indians of Nova Scotia. H. Piers, 930*
- Middleton, J., 629*
- Midlothian: See Edinburgh.
- Mielert, F., 151*
- Migration of Peoples: **¶** Klimaschwankungen und Völkerwanderungen im 19. Jahrhundert. E. Brückner, 876*
- Mikkelsen's Return from East Greenland, 690
- Milham, W. I., 463
- Military Geography: See under Geography.
- Milk R. Drainage Basin. W. A. Lamb, W. B. Freeman and F. F. Henshaw, 146*
- Mill, H. R., 138, 314*, 555*
- Miller, B. L., 928*
- Miller, W. H., 233*
- Miller, W. J., 69*, 868*
- Milwaukee, Caspar's Guide and Map to the City of, 548*
- Minas Geraes: **¶** Diamond-Bearing Deposits of Bagagem and Agua Suja in. D. Draper, 551*
- Mindanao: **¶** Geologic Reconnaissance of — and Sulu. W. D. Smith, 554* **¶** Maps of Mindanao: Geologic Reconnaissance Map, *n.*, 937; Charts of Anchorages on North Coast of, 237*; Six Charts of Bays on South Coast, 636*
- Mindoro, Charts: **¶** Anchorages in southeastern—and Tablas I., 237*;— and Vicinity, 237*
- Miner, W. H., 142*
- Minerals and Metals, Output of Certain—in the World, 234*
- Minnesota: **¶** Aborigines of. Report based on Collection of J. V. Brower, Field Surveys of A. J. Hill and T. H. Lewis. N. H. Winchell, *rev.*, 532; Agriculture, Census 1910, 311*; Geology and Underground waters of. C. W. Hall, O. E. Meinzer and M. L. Fuller, 69*; Minnesota in Three Centuries. W. Upham and Others, 947*; Population, Census 1910, 229*; Proceedings of a Council with the Chippewa Indians. (Purchase of Pine Lands), 470*; Statistics of Manufactures, Census 1910, 929* **¶** Maps of Minnesota: Characteristic Muskeg and Ground Moraine topography in glaciated area of, etc., 77*; Drainage of St. Louis and Mississippi headwaters before the stream captures along Duluth escarpment, etc., 76*; Duluth escarpment and even upland of peneplain on Duluth gabbro, etc., 76*; Geologic Maps: Mesabi District. C. K. Leith, *n.*, 76; Pigeon Point. W. S. Bailey, 76*; Vermilion Iron-Bearing District. C. R. Van Hise, 76*; Central—including Cuyuna District. C. K. Leith, 76*; Part of Cuyuna Iron District. C. K. Leith, 76*
- Mirabeau, Comte de, 945*
- Mirkhond, M., 947*
- Mishmi Hills, Journey through a portion of S. E. Tibet and the —. F. M. Bailey, 632*
- Mississippi: **¶** Population, Census 1910, 229*; Preliminary Study of Soils of. E. N. Lowe, 628*; Report of State Geologist on Iron Ores of Marshall and Benton Counties, 929*; Results of Spirit Leveling, 1896 to 1909, Inclusive. R. B. Marshall, 69*; Stat. of Manufactures, Census 1910, 550*; Structural Materials. W. N. Logan, 627*; Third Biennial Report of the— Geol. Survey Comm., 1909-1911, 929*
- Mississippi R.: **¶** Expedition of Zebulon Montgomery Pike to the Sources

- of the. E. E. Martin, 69*; — Flood of 1912. R. M. Brown, 645; Lower Mississippi Basin. W. B. Freeman and R. H. Bolster, 69*; — and J. G. Mathers, 710*; Prel. Statement Concerning a New System of Quarternary Lakes in the — Basin. E. W. Shaw, 311*; Upper—Drainage Basin. R. Follansbee and Others, 710* ¶ Maps: Drainage of the — headwaters before the stream capture; — after the stream capture, etc., 76*; Chart: From the Passes to Grand Prairie, 236*
- Mississippi Valley, Origin of the Lead and Zinc Ores of Upper. G. H. Cox, 69*
- Missouri: ¶ Agriculture, Census 1910, 311*; The New Madrid Earthquake. M. L. Fuller, 203, 710*; Population, Census 1910, 70*; Statistics of Manufactures, Census 1910, 550* ¶ Maps of Missouri: State of — 1911, n., 796; Rolla Quad., 557*
- Missouri R. Basin. W. A. Lamb, W. B. Freeman and Others, 469*; — W. A. Lamb, W. B. Freeman & F. F. Henshaw, 627*; Life along a Graded River. F. V. Emerson, 674, 761; Missouri River Proper. W. A. Lamb, W. B. Freeman & F. F. Henshaw, 146*; Relation of—Loess Mantle and Kansas Drift-Sheet. C. R. Keyes, 469*
- Mitford, M. E., 138
- Mitla. L. H. Aimé, 230*
- Mittenwald: ¶ Vom Bau der Mittenwalderbahn und ihre Zukunft. R. W. Polifka, 151*
- Mitton, G. E. See Morris, J. E.
- Mobile R. Basin. M. R. Hall & J. G. Mathers, 927*
- Moero, Le Lac —, 791*
- Moffit, F. H., 928*; — and Capps, S. R., 311*
- Mohave Desert: ¶ Notes on Later Cenozoic History of the—Region. C. L. Baker, 468*; Potash in the, 286
- Mohawk R. Drainage Basin. H. K. Barrows and Others, 468*
- Mohawk Valley, Geographic Influences in the Development of Manufacturing Industry of. G. B. Roorbach, 869*
- Moluccas: ¶ Het herstel van het Nederlandsch gezag in de Molukken in 1817, naar oorspronkelijke stukken. P. H. van der Kemp, 393*; Forschungsreise in den Südöstlichen Molukken (Aru-und-Kei-Inseln). H. Meriton, *rev.*, 922
- Mombasa-Victoria Railway, (Map), n., 156
- Monaco, Le Musée Océanographique de. J. Richard, 555*
- Monaco, Prince Albert I of, 876*
- Monarch Mining District, Col., Preliminary Report on Geology of. R. D. Crawford, 627*
- Moncton, H. W., 390*
- Mongolia: ¶ Ethnological Explorations in, 453; Exploration in North-West — and Dzungaria. D. Carruthers, 793*; Les glaciations quaternaires dans la Sibérie méridionale et la Mongolie occidentale. A. Allix, 872*; Tibet, Tartary and—. H. T. Prinsep, 946* ¶ Maps of Mongolia: Itinéraire de l'Exp. Kozlov, 318*; Mongolia. E. Banse, n., 240; Map to illustrate paper on Exploration in— and Dzungaria. D. Carruthers, 638*
- Mongols: ¶ Histoires des Mongols de la Perse par Raschid-Eldin. Persian Text with translation, notes, and memoir in French. M. Quatremère, 946*
- Monico, A., 712*
- Monmouthshire. (Cambridge Co. Geographies). H. E. Evans, n., 390
- Monroe Co., N. Y., Plants of. F. Beckwith, M. E. Macauley and M. S. Baxter, 146*
- Monroe, W. S., and Buckbee, A., 229*
- Montagnier, H. F., 394*
- Montana: ¶ Agriculture. Farms, Live Stock, etc., Census 1910, 311*; Coal Fields in. L. J. Pepperberg and W. R. Calvert, 928*; Cretaceous and Tertiary Formations of W. North Dakota and E. — A. G. Leonard, 469*; Geology and Ore Deposits of Butte District. W. H. Weed, *rev.*, 693; Population, Census 1910, 229*; Results of Spirit Leveling, 1896 to 1910. R. B. Marshall, 147*; Rock Phosphate near Melrose. H. S. Gale, 469*; Statistics of Manufactures, Census for 1910, 869* ¶ Maps of Montana: Blackfoot Quad., n., 398; Cataldo Quad., 398*; Cut Bank Quad., 557*; Thibedean Lake Quad., 877*; Zurich Quad., 934*; Geol. Map of Region surrounding Butte District, 796*; Geol. and Vein Map of Butte Dist., 796*; Top. Map of Glacier National Park, n., 398
- Montandon, G., 631*, 791*
- Montanus, A., 945*
- Montavon, Das — mit dem Oberen Paznaun. O. v. Pfister, 228*

- Mont Blanc: ¶Bibliography of Ascents, 1786 to 1853. H. F. Montagnier, 394*;
 Mont-Blancs et ses voies d'accès. F. Deloncle, 394* ; — and the Grépon in 1911. H. O. Jones, 874* ; — vu de Dijon. H. H. Mettrier, 874*
 Montelius, O., 945*
 Montell, A., 552*
 Montenegro: ¶Le Royaume de Monténégro. M. C. Verloop, n., 62
 Montero y Tirado, M. G., 311*
 Monte Rosa: ¶Physiologische Ergebnisse der im Jahre 1906 durchgeführten — Expedition. A. Durig and Others, 394*
 Montessus de Ballore, F. de., 623
 Montet, E., 67
 Montezuma Mining District. H. B. Patton, 869*
 Montgomery, A., 73*
 Monumental Brasses, A Manual of Costume as illustrated by. Druitt, 942*
 Moody, F. B., 311*
 Moon: ¶Vergleichende Mond- und Erdkunde. S. Günther, *rev.*, 707
 Moors: ¶Das Moor. C. A. Weber, 397*
 Moore, N. J., 314*
 Moorish Empire in Europe, History of the. S. P. Scott, 946*
 Moravia: ¶Topographia Bohemix Moravix et Silesix. M. Merian (1650), 945*
 Moravian Records. Vol. II. Diaries of Zeisberger relating to the first Missions in the Ohio Basin. Ed. by A. B. Hulbert and W. N. Schwarze, 868*
 Moreau, 792*
 Morel, E. D., 858, 925*
 Mori, A., 471*
 Morison, T., 539
 Morisseaux, C., 932*
 Mormons: ¶Handbook of Reference to the history of the Latter Day Saints, 940* ; The Mormons or Latter Day Saints. J. W. Gunnison, 943* ; The Mormon's Own Book. T. W. P. Taylder, 947*
 Morocco: ¶Les accords Franco-Allemands et les Négociation Marocaines. A. Terrier, 392*, 472*, 552* ; L'aube du Protectorate Marocain, 933* ; Campagnes d'Afrique: Algérie-Tunisie-Maroc. V. Piquet, 946* ; La carretera de Rio Martin á Tetuán, 231* ; Cartographic Work in, 915 ; La Chaouia Marocaine. A. G. P. Martin, 393* ; Les Terres agricoles de la. Moreau, 792* ; A travers la — avec le Corps de Débarquement de Casablanca (1907-1908). Capt. Grasset, *rev.*, 376 ; Colonisati n française, etc. Algérie-Tunisie-Maroc. V. Piquet, *rev.*, 533 ; Les confins algéro-marocains. A. Montell, 552* ; Frontière algéro-marocaine: L'Amalat d'Oudjda. Commandant de Choulot, 472* ; French Scientific Expedition to, 851 ; La géologie du — et la genèse de ses grandes chaînes. L. Gentil, 552* ; Zur Kartographie Nordmarokkos. P. Schnell, 552*, 792*, 933* ; Le Maroc il y a cent ans. Souvenirs . . . W. Lemprière. Annotés, etc., par A. Savine, 143* ; Le Maroc (Hier et aujourd'hui). Commandant Haillot, 227* ; — and its Future. A. G. Ogilvie, 792* ; Morocco in Diplomacy. E. D. Morel, 925* ; Navigabilité de l'oued Sebou de l'Océan Atlantique á Fez en canot automobile. Gen. de Torcy, 552* ; Le Maroc dans les premières années du XVI^{me} Siècle. L. Massignon, 945* ; Noticé Économique. Ch. René-Leclerc, n., 925 ; L'oeuvre française au R. de Caix, 792* ; Une page d'histoire marocaine. A. Brives, 552* ; El proyectado ferrocarril de Tánger á Alcázar, 152* ; Results of Segonzac Expedition, 851 ; Quelques étapes en Algérie et au Maroc. Général Bernard, 471* ; Le Ras el oued Sous. J. Ladreit de Lacharrière, 792* ; De Taourirt á la Moulouya et á Debdou. L. Voinot, 552* ; Reise durch Marokko. G. Rohlf, 946* ; Les relations de l'Espagne et du Maroc pendant le 18^{me} et 19^{me} Siècles. E. Rouard de Card, 941* ¶Maps of Morocco: La Chaouia. Cap. Grasset, 399* ; Four Maps to illustrate paper by A. G. Ogilvie. Geomorphology, Relief, Rainfall, Population, Railways, n., 638 ; Höhenschichtenkarte des Atlasvorlandes. R. Zietz, n., 638 ; Maps illustrating "Zur Kartographie Nordmarokkos." P. Schnell, n., 157, 936 ; Maroc. Service Géog. de l'Armée, Two sheets, n., 477 ; Philips' Map of Tripoli, Morocco, etc., n., 640 ; Secteur Rabat-Salé d'après la carte du bureau top. des troupes au Maroc, 238* ; Zones d'influence Espagnols du Projet de 1902, — d'après le traité de 1904, 157*
 Morphology: ¶Physiologische Morphologie. S. Passarge, 635*
 Morrey, W. T. See Arey, A. L.
 Morris, J. E., & Mitton, G. E., 867*
 Morrison, J. H., 709*
 Morteratsch Glacier: ¶Study in the Na-

- tural History of Ice. J. Y. Buchanan, 875*
- Moselle R., Das Diluvium der Mosel. A. Leppla, 151*
- Moselle Valley: ¶Siedelungen des Moseltales in ihrer Abhängigkeit von den morphologischen Verhältnissen. B. Dietrich, 394*
- Moser, H., 945*
- Moser, J. G. See Hopkins, C. G.
- Mosquitos, Synoptical View of the— of British Guiana. J. Aiken, 230*
- Mosséri, V. M., 792*
- Mossman, R. C., 231*, 551*
- Mossoul, De—à Bagdad. J. Drure, 712*
- Moszkowski, M., 794*
- Mothersole, J., 62
- Mougin, P., 314*
- Moule, A. E., 538
- Mount Arrowsmith District, N. Z.: Study in Physiography and Plant Ecology. R. Speight, L. Cockayne and R. M. Laing, 150*
- Mt. McKinley: ¶Expedition to, 364; Parker Expedition to, 45, 230*, 686
- Mt. McKinley Region. A. H. Brooks, *rev.*, 53
- Mount Robson: ¶Expedition to. A. L. Mumm, 789*; Geology and Glacial Features. A. P. Coleman, 789*; To the Top of Mount Robson. G. Kinney and D. Phillips, 789*
- Mt. Sir Sanford, Ascent of. H. Palmer, 770
- Mount Tacoma. W. B. Wetmore, 210
- Mount Weather Observatory: Free Air Data for Oct., Nov. and Dec., 1910. W. R. Blair, 475*
- Mountaineering: ¶Ascents in the Canadian Rockies. V. A. Fynn, 789*; Bibliog. of the ascents of Mont Blanc, 1786 to 1853. H. F. Montagnier, 394*; My Climbing Adventures in Four Continents. S. Turner, *rev.*, 140; Damenkletterei. P. Preusz, 716*; Jahrbuch der Schweizer Alpenclub, 1910-11, 714*; Mont-Blanc et ses voies d'accès. F. Deloncle, 394*; Physiologische Ergebnisse der im Jahre 1906 durchgeführten Monte Rosa-Expedition. A. Durig and Others, 394*; Wanderungen in den Pyrenäen. Hauptgipfel. C. Täuber, 394*; Search for the Apex of America. High Mountain Climbing in Peru and Bolivia. A. S. Peck, *rev.*, 298 ¶Map: Huascarán. Map showing A. S. Peck's Route, *n.*, 317
- Mountains: ¶Isostasy and Mountain Ranges. G. F. Reid, 354; Lecture on "The Majesty of the Mountain." C. E. Fay, 44*
- Moyriac de Mailla, J. A. A. de, et l'abbé Grosier, 945*
- Mozans, H. J., 297
- Muir, J., 778
- Muir, R., 800
- Mulert, F. E., 308*
- Müllendorff, P., 682
- Müller, H., Personal, 453
- Müller, R. E., 73*
- Mumm, A. L., 789*
- Munger, T. T., 928*
- Munn, M. J., 470*, 868*, 869*; —& Wegemann, C. H., 392*; see also Shaw, E. W.
- Munro, N. G., 945*
- Munthe, H., 395*
- Murihiku and the Southern Islands. R. McNab, 944*
- Murphy, T. D., 857
- Murray, C. B. See Crowell, B.
- Murray, H., 945*
- Murray, Sir John, 715*
- Museo de la Plata: ¶Catálogo de la Sección Antropológica del. R. Lehmann-Nitsche, 870*
- Myers, A. C., 945*
- Myers Creek Mining Dist., Geology and Ore Deposits of the. J. B. Umpleby, 470*
- Myres, J. L., 310*
- Mžik, H. v., 866*

N

- Nadir Shah, History of. J. Fraser, 942*
- Nagasaki, La Città di. A. Monico, 712*
- Nairobi, capitale de l'Afrique orientale anglaise, 932*
- Nakai, T., 873*
- Nakun, Les ruines de. M. de Périgny, 790*, 870*
- Nanking, Von Tsingtau nach —. J. Schulze, 872*
- Nansen, F., 240*, 391*, 462
- Nantucket Harbor, Chart, 236*
- Napier, Lieut.-Gen. Sir W., 945*
- Napier, Sir Charles, History of —'s Administration of Scinde. Sir W. Napier, 945*
- Naples: ¶Vulcanismus und Tektonik im Becken von Neapel. W. Kranz, 634* ¶Maps of Naples: Six Geological sketch Maps of the vicinity of, 480*
- Nash, W. L., 945*
- Natal: ¶Colonia dell' Orange e il

- Natal. P. Pasi, 71*; Descriptive Guide and Official Hand-Book. Edited by A. H. Tatlow, 786*; Distribution of Temperature, 472*; Mines Department Annual Reports for 1910, 711*; Vegetation of. J. W. Bews, 872*
- Natural Bridges, Some Small — in Eastern, Wyoming. V. H. Barnett, 788*
- Nautical Almanach, Brown's *n.*, 548
- Navigation: ¶ *Geschichte der Handlung und Schiffahrt der Alten*. P. D. Huet, 943*; Manual of Navigation Laws. Historical Summary of the Codes of Maritime Nations. E. M. Bacon, *n.*, 468; The New—. Presented in a familiar Way . . . Merchant Service. F. C. Cross, *n.*, 926; Weather Signs and How to read them at Sea. W. Allingham, *n.*, 926
- Nebraska: ¶ Agriculture. Farms, Live Stock, etc., Census 1910, 869*; Population, Census 1910, 229*; Provisional Government of — and the Journals of William Walker. W. E. Connelly, 941*; Statistics of Manufactures, Census for 1910, 869*
- Negro, C. See Costanzo, G.
- Negroes: ¶ *Negro Year Book and Annual Encyclopedia*, 1912, *n.*, 787; The Negro in Pennsylvania. Slavery-Servitude-Freedom, 1639-1861. E. R. Turner, *n.*, 547; A Short Account of that Part of Africa inhabited by the Negroes . . . the Manner by which the Slave Trade is Carried on, the Iniquity of the Trade, etc. E. Benezet, (1772), 940*
- Negros, Charts of Harbors in, 237*
- Nelson, W. A., 229*
- Nemry, L., 554*
- Netherlands: ¶ *Anglo-Dutch Rivalry During the First Half of the Seventeenth Century*. G. Edmundson, 144*; *Wat de Haagsche Waterleiding ons leert aangaande den Hydrologischen Toestand der Duinen*. A. H. Pareau, 315*; *Natuurlijke Histoire van Nederland*. Staring, Luboch and Others, 948*; *Vaderlandsche Historie*. J. Wagenaar, 1788-1801, 948*; — *Vervolg* von Wagenaar's, 948* ¶ *Maps of the Netherlands: Duinen tusschen Scheveningen en Katwijk*, *n.*, 159; Northern—showing plan adopted for the reclamation of Zuyder Zee, 80*
- Neu-Langenburg und das Deutsche Nyassa-Seegebiet, 871*
- Neu Pommern. See also Bismarck Archipelago: ¶ *Tätigkeit der Vulkane*
- Ghai und Raluan. K. Sapper, 150* ¶ *Map: Skizze der Blanche-Bucht mit den Vulkanen Ghaie und Raluan*, 79*
- Nevada: ¶ Agriculture, Census 1910, 311*; Frost Prevention in, 520; Irrigation. Farms and Acreage Irrigated, etc., Census 1910, 929*; Manufactures. Census 1910, 147*; Notes on the Antelope District. F. C. Schrader, 928*; Population, Census 1910, 229*; Reconnaissance of Jarbidge, Contact and Elk Mt. Mining Districts. F. C. Schrader, 869*; Results of Spirit Leveling, 1897 to 1910. R. B. Marshall, 147*; Tertiary Mammal Beds of Virgin Valley and Thousand Creek in northwestern. J. C. Merriam, 147* ¶ *Maps of Nevada: Bridgeport Quad.*, 398*; *Ivanpah Quad.*, 877*
- Neve, A., 149*
- Nevins W. S. See Webber, C. H.
- New Brunswick: ¶ *Clay and Shale Deposits of Nova Scotia and Portions of. H. Reis and J. Keele*, 230*
- Newell, F. H., 470*, 612*
- New England: ¶ — and Its Neighbors. C. Johnson, 786*; New England's Place in the History of Witchcraft. G. L. Burr, 627*; *Scenic — Tour Book*. R. Beck, 146* ¶ *Map: North K 19: Boston*, 934*, *n.*, 243
- Newfoundland: ¶ *Botanical Expedition to— and Southern Labrador*. M. L. Fernald, 550*; *Lovells's Gazetteer . . . latest descriptions, including Newfoundland*, *n.*, 142; *Physiography of. W. H. Twenhofel*, 230* ¶ *Maps of Newfoundland: Humber Drainage*, 316*; *Map from Rev. Harvey's Text Book of Newfoundland History*, 316*
- New Guinea: ¶ *Exploratief van Nieuw-Guinea*. H. A. Lorentz, 150*; *MacKay-Little Expedition in Southern*, 314*; *Zwergstammen in Zuid Nieuw-Guinea*. A. J. P. van den Broek, 150* *British New Guinea: See Papua.*
- Dutch New Guinea: ¶ —. Central Range, 314*; *Expedition zur Erforschung des Mamberamo in Holländisch New-Guinea*. M. Moszkowski, 794*; *Exploratief van Ned. Nieuw-Guinea*, 150*, 633*; *Explorations in. C. G. Rawling*, 73*; *Het Kamaka Wallar, een Karstmeer op Nieuw-Guinea*. J. F. Niermeyer, 150*; *Noord Nieuw-Guinea*. F. J. P. Sachse, 394*; *Oorsprongs-en Afstammings-legenden van den Marindinees*. J. Vliegen, 633*; *Verslag omtrent eene geologische ver-*

- kenning van de Mamberamo-Rivier. J. K. van Gelder, 633*; Zuidkust van Nieuw-Guinea. O. G. Heldring, 633*
 ¶Map: Schets van den loop der Idenburg-Rivier, *n.*, 158
 German New Guinea: See also Kaiser Wilhelms Land: ¶Beiträge zur Völker- und Sprachenkunde von Deutsch-Neuguinea. Wiss. Ergebnisse Einer amtlichen Forschungsreise nach dem Bismarck-Archipel, 1908. H. G. Friederici, *rev.*, 923; Exploration of, 853
 New Hampshire: ¶Agriculture. Farms and Farm Property, Live Stock, etc. Le G. Powers, 69*; Population, Census 1910, 147*; Statistics of Manufactures, Census for 1910, 869*
 ¶Map: Kezar Falls Quad., 398*
 New Jersey: ¶Agriculture, Census 1910, 311*; Annual Administrative Report of State Geologist for 1910, 549*, for 1911, 929*; New Jersey as a Royal Province, 1738 to 1776. E. J. Fisher, *n.*, 547; Mineral Industry, for 1911. H. B. Kümmel, 928*; Narratives of Early Pa., West New Jersey, etc. A. C. Meyers, 945*; Statistics of Manufactures, Census 1910, 929*
 ¶Maps of New Jersey: Trenton Quad. Areal Geology, Structure Sections, 153*; Charts: Shrewsbury R., 236*
 Newland, D. H., 69*, 928*
 New Madrid Earthquake. M. L. Fuller, 203, 710*
 Newman, M. H. & Merriam, W. N., 76*
 New Mexico: ¶Agriculture. Farms, Live Stock, etc., Census 1910, 869*; Extinct Volcanoes of northeastern. W. T. Lee, 627*; Geology and Resources of Estancia Valley with Notes on Ground-water Conditions in Adjacent Parts of Central. O. E. Meiner, 311*; Graphite near Raton. W. T. Lee, 928*; Irrigation. Farms and Acreage Irrigated, etc., Census 1910, 929*; Leading Facts of — History. R. E. Twitchell, *rev.*, 295; Mica in New Mexico, Idaho, etc. D. B. Sterrett, 928*; Pueblo Indians of. F. C. Wilson, 629*; Population, Census 1910, 229*; Recent Stream Trenching in Semi-Arid Portion of Southwestern. J. L. Rich, 311*; Results of Spirit Leveling, 1902 to 1909, Inclusive. R. B. Marshall, 69*; Statistics of Manufactures, Census 1910, 869*; Underground Waters of. W. E. Holt, 549*
 ¶Maps of New Mexico: Geol. Map of Vicinity of Burro Mts., 77*; Magdalena District, 934*; Map of the State of, *n.*, 796; Maps Accompanying "Leading Facts of New Mexican History," 316*, 320*; Mogollon Quad., 934*
 New River Inlet, N. C., Chart, 236*
 New South Wales: ¶Annual Report of Department of Mines for 1910; 150*; Botanical, Topographical and Geological Notes on some Routes of Allan Cunningham. J. H. Maiden and R. H. Cambage, 150*; On the Climate of Yass-Canberra District. H. A. Hunt, 794*; Notes on Physiography of southern Tableland. C. A. Süßmilch, 150*; Official Year Book, 1909-10. J. B. Trivett, *n.*, 709; Population, Census 1911, 530
 New York City: ¶Annual Report of Art Commission — for 1910, 629*; Catskill Water Supply for. C. P. Berkey, 549*; Geology of the City of New York. L. P. Gratacap, 466*; The Greatest Street in the World. Story of Broadway, Old and New, etc. S. Jenkins, *rev.*, 533; Overcoming Difficulties in Building the new water supply system for. J. F. Springer, 628*
 ¶Maps of New York City: Williams' Maps of the Boroughs of, *n.*, 637
 New York State: ¶Agriculture of. E. O. Fippin, 710*; Agriculture. Census 1910, 311*; Comparative Sketch of Precambrian Geology of Sweden and New York. J. F. Kemp, 868*; Fifth Year Geography of, 145*; Geology of the Broadalbin Quad., Fulton-Saratoga Counties. W. J. Miller, 868*; Geology of the Honeoye-Wayland Quad. D. D. Luther, 628*; Some Geological Rambles near Vassar College. G. B. Shattuck, *n.*, 466; Larger Physiographic Features of. R. S. Tarr, 628*; Glacial Geology of Schenectady Quad. J. H. Stoller, 628*; The Manhattan Indians. A. Skinner, 928*; Mining and Quarry Industry. D. H. Newland, 69*; Population, Census 1910, 147*; Some Practical Features of — Geology. D. H. Newland, 928*; The Greatest Street in the World. The Story of Broadway Old and New from Bowling Green to Albany. S. Jenkins, *rev.*, 533; Results of Spirit Leveling, 1906 to 1911. R. B. Marshall, 928*; Statistics of Manufactures, Census 1910, 929*
 ¶Maps of

- New York: Atlas of Counties of N. Y. State, *n.*, 316; Catatunk Quad.: Areal Geology, Surficial Geology, 153*; Warren Quad.: Areal Geology, Economic Geology, 154*; Watkins Glen Quad. Areal Geology, Surficial Geology, 153*; Canton Quad., 398*; Delhi Quad., *n.*, 557; Hammond Quad., 877*; Hartwick Quad., *n.*, 557; McKeever Quad., 877*; New Berlin Quad., 877*; Ontario Beach Quad., *n.*, 557; Rochester Quad., *n.*, 557; Rochester Special Map, *n.*, 557; Sketch maps: Glacial Lake Newberry in west-central, 155*; glacial deposits of portions of, 155*; Western New York showing morainial Deposits, 155*
- New Zealand: ¶ *Australien und Neuseeland.* R. Schachner, 308*; Effect of Disappearance of — Bush. Walsh, 150*; Kauri Gum Mining in. R. A. F. Penrose, 394*; Mount Arrowsmith District Study in Physiography and Plant Ecology. R. Speight, L. Cockayne, and R. M. Laing, 150*; Murihiku and the Southern Islands. History of West Coast Sounds, Foveaux Strait, etc., from 1770 to 1829. R. McNab, *rev.*, 540; Neuseeland nach seiner Geschichte und seiner Natur, sowie der materiellen und intellektuellen Entwicklung. M. F. Blassneck, *n.*, 867; New Zealand. L. Lee, 633*; New Zealand. Sir Robert Stout and J. L. Stout, *n.*, 308; The Maori and the Moa, 233*; Mining Laws of Australia and —. A. C. Veatch, 473*;—Plants and Their Story. L. Cockayne, *rev.*, 60; Lecture on New Zealand. M. Bayly, 203*; Official Year Book, 1911. M. Fraser, 633*; Outlying Islands of. Lord Plunket, 314*; Recent and Sub-recent Movements of Uplift and of Subsidence near Wellington. C. A. Cotton, 794*; Report of the Department of Lands, 1910-11. W. C. Kensington, 233*; Rotomahana and District revisited Twenty-three Years after the Eruption. H. Hill, 233*; Some — Volcanoes. J. M. Bell, 794*; Wirtschaftsorganisation der Maori auf Neuseeland. W. v. Brun, *n.*, 867; ¶ Maps of New Zealand: Bacon's Excelsior Map of, *n.*, 720; Three Maps to illustrate "Some New Zealand Volcanoes, 938*
- Ngamiland, Notes on. A. G. Stigand, 711*, Map, 558*
- Niagara Falls, Preservation of, 789*
- Nicaragua: ¶ *Nicaragua in 1910*, 148*
- Nickles, J. M., 391*
- Nicobars, Geology of Andaman Islands with reference to the. G. H. Tipper, 150*
- Nicoya Peninsula, Geological Notes on the. J. Romanes, 789*
- Niederle, L., 396*
- Nielsen, N., 554*
- Niermeyer, J. F., 150*, 313*
- Niger: ¶ *Chemin de fer de Guinée et la Navigation du Niger*, 312*; Niger and the West Sudan, etc. A. J. N. Tremearne, *rev.*, 858; Notre Beau Niger. F. Dubois, *rev.*, 212; Le sommet de la boucle du. G. de Gironcourt, 631*; The Travels of R. & J. Lander into the Interior of Africa for the Discovery of the Course and Termination of the Niger. From unpublished Documents . . . Analysis of Previous Travels of Park, etc. R. Huish, 944*
- Nigeria: ¶ *Annual Reports for the Colony—1910*, *n.*, 708; Anthropological Report on Edo-Speaking Peoples of. N. W. Thomas, *n.*, 697; On certain physical characters of the Negroes of Congo Free State and Nigeria. A. Keith, 931*; On Horseback Through. J. D. Falconer, 466*; Nigeria: Its Peoples and its Problems. E. D. Morel, *rev.*, 858; Trade Development in, 231* ¶ *Maps of Nigeria: Northern and Southern Nigeria to illustrate paper by C. L. Temple, n.*, 936; Zone frontière Anglo-Allemande entre le rivière Cross et Yula, *n.*, 317
- Northern Nigeria: ¶ *Cotton Growing in*, 207; Géologie et géographie de la — septentrionale. H. Hubert, 72*; Geology and Geography of. J. D. Falconer, 458; Homes for White Men in, 120; The Making of. C. W. J. Orr, 945*; Northern Nigeria. C. L. Temple, 792*;—Tin: Its Occurrence and Origin. J. D. Falconer, 932* ¶ *Maps of Northern Nigeria: Axes of Elevation*, 317*; Bauchi Plateau and Nassarawa Tableland, 318*; Distribution of Salt, Tinstone, Gold and Galena, 317*; Primary Watersheds and River Systems, 317*; Topographical and Geological Map of, *n.*, 318
- Southern Nigeria: ¶ *Blue Book. Colony of Southern Nigeria*, 1911, 932*; Calabar et sa Mission. R. P. Lejeune, 553*; Climatology of. C. A. Barnes, 553*; Colony and Pro-

- teetorate of — 1910, 149*; Development of Native Government in. R. E. Dennett, 149*; Handbook of — Survey and Text Book of Topographical Surveying in Tropical Africa. F. G. Guggisberg, 143*; Notes on the Ibo Country and the Ibo People. G. T. Basden, 553* **Q**Map of Southern Nigeria: Sketch map of part of. G. T. Basden, *n.*, 559
- Nile: **Q**Le Canal Abbas II. Esquisse d'un projet pour rendre navigable le grand désert de la Nubie et pour la réglementation des eaux du Nil. O. Abbate-Pacha, 870*; Nilen och dess betydelse för Egypten. V. E. Lilienberg, 312*; The Rains of the Nile Basin and the Nile Flood of 1909. J. I. Craig, 148* of 1910, 870* **Q**Maps of the Nile: Map showing Meteorological, River and Rain Gauge Stations, 78*; Rains and the Flood of 1909. J. I. Craig, 78*
- Nile Regions: **Q**Die Nilländer. R. Hartmann, 943*
- Niles, G. G., 925*
- Nilgiris, Sport on the—and in Wynaad. F. W. F. Fletcher, *n.*, 625
- Nilsson, S., 945*
- Niox, G., M. Fallex et E. Darsey, 880
- Nipigon Lake, Diabases of. A. W. G. Wilson, 450
- Nippoldt, A., 555*
- Nisbet, T., 234*
- Nogaians: **Q**Die Nogaier im Gouvernement Stawropol (Ziskaukasien). K. v. Hahn, 233*
- Nölke, F., 635*
- Nordenskiöld, O., 74*, 514, 876*
- Normandy: **Q**Cook's Tourists' Handbook for — and Brittany, 68*; Évolution économique de la Haute-Normandie. L. Gallois, 874*; Port de Caen et les mines de fer de Basse-Normandie. Y. Lemarec, 874*
- North, T., 945*
- North America: See under America.
- North Carolina: **Q**Agriculture. Farms, Live Stock, etc., Census 1910, 869*; Coal on Dan River. R. W. Stone, 788*; Forest Conditions in Western. J. S. Holmes, 549*; Forest Fires during 1911. J. S. Holmes, 927*; Mining Industry, 1908-10. J. H. Pratt and H. M. Berry, 869*; Population, Census 1910, 229*; Water Powers of, 686; Manufactures, Census 1910, 550* **Q**Maps of North Carolina: Lincolnton Quad., 398*; Mt. Guyot Quad., 557*; 2 Charts of Harbors, 236*
- North Dakota: **Q**Agriculture. Census 1910, 311*; Cretaceous and Tertiary Formations of Western — etc. A. G. Leonard, 469*; Lignite in the Fort Berthold Indian Reserv. north of the Missouri. R. M. A. Pishel, 928*; Natural Gas in. A. G. Leonard, 69*; Once their Home. Our Legacy from the Dakotahs. Historical, Biographical, etc. F. C. Holley, 943*; Population, Census 1910, 229*; Results of Spirit Leveling, 1897 to 1910, Inclusive. R. B. Marshall, 69*; Manufactures, Census for 1910, 869* **Q**Maps of North Dakota: Bismarck Quad. Areal Geology, 878*; Eckelson, Jamestown, & Tower Quads. Areal Geology, Artesian Water, 153*; Ray Quad., 398*; Sketch Map of Jamestown, Eckelson and Tower Quadrangles, 155*; Sketch map showing southern limit of Pleistocene ice sheets . . . glacial lobe. J. E. Todd, W. Upham and D. E. Willard, 154*
- Northern Territory (S. Australia,) Population, Census 1911, 530
- Northamptonshire. M. W. Brown, 626*
- North Pole: Pole, North.
- North Sea Coasts: **Q**Beiträge zur morphologischen Entwicklungsgeschichte der deutschen Nordseeküste mit besonderer Berücksichtigung der Dünen tragenden Inseln. W. Ordemann, 874*; Sandbänke an der Küste der Deutschen Bucht der Nordsee. H. Poppen, 794*
- Northwest Frontier Province, Map, *n.*, 478
- Northwest Passage: **Q**Neuesten Polarreisen und die Nordwestliche Durchfahrt. E. v. Drygalski, 152*
- Norway: **Q**Ancient Laws of — and Iceland. H. Hermansson, 151*; Home Life in. H. K. Daniels, 144*; Jahrb. des Norweg. Meteor. Instituts, 1905-10, 634*; Kurze Übersicht über die Gletschergebiete südlichen Norwegens. J. Rektstad, 395*; Man and his Environment in. B. Henderson, 151*; Die nördliche Steinzeitkultur in Finnland, Norwegen und Schweden. A. M. Hansen, 554*; Récents travaux géographiques et géologiques dans la Norvège septentrionale. C. Rabot, 395*; Whaling Industry, 1911, 634* **Q**Maps of Norway: Le Folgefonn, 319*; Topografisk Kart over Kongeriket Norge, *n.*, 430

- Nova Scotia: ¶ Clay and Shale Deposits of—and Portions of N. B. H. Ries and J. Keele, 230*
- Novaya Zemlia, Russian Trading Post on Northern Island of, 290
- Noyes, W., 547
- Nubia: ¶ Le canal Abbas II. Esquisse d'un projet pour rendre navigable le grand désert de la Nubie, etc. O. Abbate-Pacha, 870*; Die Geschichte Nubiens und des Sudans. G. Roeder, 931*; Nubia and the Berberine. H. W. Beckett, 351
- Nyasa Lake: ¶ Du Cap au Lac Nyassa. E. Foà, 942*
- Nyasa Lake Region: ¶ Neu-Langenburg und das Deutsche Nyassa-Seegebiet, 871*
- Nyasaland: ¶ Baumwollbau in, 231*; Geography and Economic Development of British Central Africa. A. Sharpe, 710*; Native Customs in Nyassa. H. W. Garbutt, 711*; Le Nyasaland. M. A. Winnen, 711* ¶ Map to illustrate "Geography and Economic Development of British Central Africa," n., 157
- Nzamba, G., 392*, 631*
- O
- Oaxaca: ¶ Exploration of Certain Iron-Ore and Coal Deposits in the State of. J. L. W. Birkinbine, 307*; Reconocimiento de algunos Criaderos de Fierro del Estado de. Y. S. Bonillas, 392*
- Oberhummer, E., 393*
- Obi: ¶ Ocean Route to — and Yenisei Rivers, 49
- Obituary:
- Agnew, Andrew G., 918
 - Andree, Dr. Richard, 294
 - Arechavaleta, Prof. José, 691
 - Bacon, Francis McNeil, 918
 - Barnes, John S., 52
 - Claparède, Arthur de, 210
 - Davidson, George, 50, 51
 - Dutton, Major Clarence Edward, 124
 - Hooker, Sir Joseph Dalton, 124
 - Keane, Augustus Henry, 210
 - McGee, Dr. W. J., 691
 - Melville, Rear-Admiral George W., 370
 - Rotch, A. Lawrence, 294
 - Scobel, Prof. Albert, 294
 - Tarr, Ralph Stockman, 283, 284
 - Whitehouse, Frederic Cope, 125
 - Young, Robert Evans, 124
- Obruchev, V. A., 873*, 916
- Obst, E., 632*
- Oceania: ¶ Fortschritte der geographischen Forschungen in Australien und Ozeanien, 1910. N. Krebs, 232*
- Oceanography: ¶ Zur Aerologie tropischer und subtropischer Ozeane. A. Peppeler, 795*; Beobachtungen von Oberflächenstrom, Tiefenstrom, und Wind an Feuerschiffen in den Jahren 1900-10. R. Witting, 876*; Beobachtungen von Temperatur und Salzgehalt an festen Stationen in den Jahren 1900-10. R. Witting, 796*; Campagne scientifique de l'Hirondelle II (1911), 397*; Ergebnisse einer ozeanographischen Forschungsreise in dem Atlantischen und dem südlichen Stillen Ozean. R. Lütgens, 715*; Fortschritte der Ozeanographie. Fürst Albert I. von Monaco, 876*; Glaciation des Mers, les conditions de son développement et les faits observés. E. v. Drygalski, 152*; Kaysers Physik des Meeres. Zweite Auflage Neubearbeitet. C. Forch & P. Zanetti, rev., 706; Lotungen und ozeanographische Beobachtungen S. M. S. "Planet" in der Südsee 1911, usw. A. C. Reichard, 795*; Mean Sea-Level. E. O. Henri, 397*; Das Museum und Institut für Meereskunde in Berlin. A. Penck, 874*; New Record in Ocean Depths, 611; Note on Mean Sea-Level. S. G. Burrard, 555*; Über eine Methode zur Messung von Hochseezeiten. E. Barkow, 235*; Eine mögliche Ursache der Vertiefung der Meere. W. Trabert, 315*; Musée Océanogr. de Monaco. J. Richard, 555*; Sur une nouvelle méthode de recherches qualitatives de la lumière dans des profondeurs différentes de la mer. R. Bertel, 315*; Oceanographical Institute at Paris. W. S. Bruce, 794*; Die optische Bestimmung des Salzgehalts im Seewasser. F. Löwe, 795*; Der Salzgehalt der Meere und seine Ursachen. A. Voeikov, 555*; Verdunstung auf dem Meere. R. Lütgens, 235*; Die Wirkung der grossen Hitze und Dürrezeit 1911 auf die Seenverdunstung. J. Maurer and J. Früh, 635* ¶ Maps: Über Meeresströmungen zwischen Kap Horn und der la Plata-Mündung. J. Klähn, 315*; Salzgehalt der Oberfläche der Meere im Verhältnis zur Süswasserzufuhr der Stromgebiete und zur Höhe der Randegebirge, n., 320; Oberflächentemperatur an der Nordwestafrikanischen Küste, 160*; Wind-

- und Stromverhältnisse auf der Fahrt von Singapur nach Friedrich-Wilhelmshafen . . . 1910, 160*
- Odeh, N. See Hassam, A.
- Odenwald, Verteilung der Siedlungen über den. A. Jungk, 73*
- Oder R. Geographisch-historische Beschreibung der Oderströms (1742). C. Schneider, 946*; Hellmann on the Floods of the. H. R. Mill, 314*
- Odessa, Annual of the Meteorological and Magnetic Observatory of the Imperial University at —, 1910, 874*
- Oestreich, K., 393*
- Oeynhausen, C. v., 945*
- Ogilby, J., 945*
- Ogilvie, A. G., 792*
- Ogilvie, W. See Dall, W. H.
- Ohio: ¶Agriculture. Census 1910, 311*; Climate of. J. W. Smith, n., 693, 928*; Economic Mineral Products. F. Carney, 146*; Geographic Conditions in the Early History of. F. Carney, 146*; Geographic Influences in the Development of. F. Carney, 146*; Geologic Development of. F. Carney, 146*; Glaciation in. F. Carney, 310*; Moravian Records. Diaries of Zeisberger relating to the First Missions in the Ohio Basin. Edited by A. B. Hulbert and W. N. Schwarze, 868*; Population, Census 1910, 70*; Result of Spirit Leveling—1909 and 1910. R. B. Marshall, 69*; Statistics of Manufactures, Census 1910, 929*; Successions of Vegetation in Ohio Lakes and Peat Deposits. A. Dachnowski, 927*; Transportation in. F. Carney, 310* ¶Maps of Ohio: Caldwell Quad., 557*; Cambridge Quad., 557*; Carrollton Quad., n., 934; Columbus Quad., n., 934; Cumberland Quad., 75*; Loramie Quad., 398*; Laurelville Quad., 877*; Muskingum Co., 877*; Oak Hill Quad., n., 934; Oxford Quad., 75*; Spencerville Quad., 75*; Summerfield Quad., 75*
- Ohio River: ¶Relation between Precipitation over the Watershed of the—above the Stream-Flow at Cincinnati. J. W. Smith, 521
- Oilpalm: ¶Ölpalme am Tanganyika—See. E. Zimmermann, 152*
- Okapi, Monograph of the. Sir E. Ray Lankester, rev., 865
- Okey, T., 709*
- Oklahoma: ¶Agriculture. Farms, Live-Stock, etc., Census 1910, 869*; Future of Natural Gas in. C. N. Gould, 69*; Statistics of Manufactures, Census 1910, 550*; Population, Census 1910, 229* ¶Maps of Oklahoma: Sallisaw Quad., 75*; Sansbois Quad., 75*
- Olancho Dept., Honduras, Visit to. A. T. Haeblerle, 630*
- Olbricht, K., 73*, 233*
- Oliver, W. R. B., 314*
- Olmstead, A. T., 432
- Olmstead, A. T., B. B. Charles and J. E. Wrench, 625*
- Olsson-Seffer, P., 315*
- Olufsen, O., 304
- Olympic National Forest. F. Burns, 927*
- Omaha Tribe, the. A. C. Fletcher and F. La Flesche, 69* ¶Maps accompanying: Country known to the Omaha, n., 77; Omaha Reservation. H. L. Keefe, 77*
- Ontario: ¶Fifth Report of the Bureau of Archives, 1908. [Huron Indians, 1615-1650]. A. Fraser, 470* ¶Maps of Ontario: Geologic Map of Aniskie Iron-Bearing District. W. N. Smith and R. C. Allen, 77*; Grenzerweiterungen der Provinzen Quebec, Ontario, usw., n., 934*; Northern Ontario: Mineral District, n., 399
- Oppel, A., 395*, 713*
- Oppenheim, M. v., Zweite Reise in der Asiatischen Türkei 1899 von—. (M-p), n., 79
- Oran: ¶—et Algérie en 1887, 940*
- Orange Free State Province: ¶Colonia dell'Orange e Natal. P. Pasi, 71*; Distribution of Temperature, 472*
- Ordemann, W., 874*
- Ordnance Survey: ¶Mapping by The, 854; Report of the Progress of, 1911, 234*; 1912, 875*
- Ordoñez, E., 366
- Oregon: ¶Agriculture. Census 1910, 311*; Crater National Forest, etc. F. Burns, 927*; Fifty years in. Experiences, observations, etc. T. T. Geer, 778; Irrigation. Farms and Acreage irrigated, etc., Census 1910, 929*; Manufactures, Census 1910, 550*; Population, Census 1910, 229*; Short History of. S. V. Johnson, 944*
- Orient, Courses on Geography of the, 610
- Orinoco, Rubber Along the Upper, 367
- Orleans, The Duke of, 548
- Orłowska, E. N., 626*
- Oroville-Nighthawk Mining Dist., Geology and Ore Deposits of the. J. B. Umpleby, 470*

- Oroya, Gebiet von—(Map). R. Hauthal, 78*
 Orr, C. W. J., 945*
 Osborn, C. S., 57
 Ostriches: ¶Über die Straussenzucht, Krankheiten der Strausse und ihre Behandlung. G. Lichtenheld, 475*
 Ottoman Empire. See also Turkey, and Turkey in Asia: ¶Geschichte der Byzantiner und des Osmanischen Reiches. G. F. Hertzberg, 943*
 ¶Map: Wand-Karte des Osmanischen Reiches. W. v. Diest, und M. Groll, n., 400
 Oued Rir', Les Oasis de. H. Jus, 944*
 Outes, F. F., and Bruch, C., 299
 Owens, J. S., 315*, 555*
 Oxyrhynchus Papyri. Ed. with Translations and Notes by A. S. Hunt. Part viii, 145*
 Ozzard, A. T., 230*

P

- Pabor, W. E., 945*
 Pace, B., 945*
 Pacific Ocean: ¶Beiträge zur Kenntnis des Oberflächensalzgehaltes im Stillen Ozean, 153*; The "Deep" of the—and their Origin. J. Geikie, 715*; Ergebnisse einer Forschungsreise in dem Atlantischen und dem südlichen Stillen Ozean. R. Lütgens, 715*; Strömungen und die Temperaturverhältnisse des—nördlich von 40° N. Br. einschliesslich des Bering-Meeress. B. Schulz, 715*; Temperatur und Salzgehaltsbestimmungen im südwestlichen, 153*; Verteilung der Leitfähigkeit der Atmosphäre über dem Grossen Ozean, nach den Beobachtungen der *Galilee*. A. Nippoldt, 555* ¶Maps: Map of Steamship Routes between Durban and Nagasaki or Yokohama, 160*; Massnahmen der Rand-Grossstaaten des Grossen Ozeans zu seiner Beherrschung, n., 939; Planisphère. Bassin Pacifique, n., 320; School Wall Map of, n., 240
 Packard, W., 786*
 Paige, S., Emmons, W. H., & Lacey, F. B., 229*
 Palestine: ¶Biblical Geography and History. C. F. Kent, *rev.*, 781; Climatic Changes in the Nearer East. A. T. Olmstead, 432; A Reply. E. Huntington, 440; Descriptiones Terræ Sanctæ. T. Tobler, 947*; Guide du Nil au Jourdain par le Sinai et Pétra. Sur les traces d'Israël. B. Meistermann, n., 68; History of Civilization in. R. A. S. Macalister, n., 625; Landes- und Volkskunde Palästinas. G. Hölscher, n., 699; Palestine. G. E. Franklin, *rev.*, 461; Palestine and Syria, with routes through Mesopotamia, etc. Handbook for Travellers. K. Baedeker, n., 866; The Real—of To-Day. L. G. Leary, n., 548; Zionist Work in. By Various Authorities, n., 467 ¶Maps of Palestine: Bibelatlas in 20 Haupt- und 28 Nebenkarten. H. Guthe, n., 782; Karte des Ostjordanlandes. G. Schumacher, n., 399; Modern Palestine with Ancient Towns and Highways, n., 319; Palästina, n., 319; Photo Relief Map of. G. Armstrong, n., 319
 Paleozoic Coral Reefs, Physical Conditions under which—were formed. T. W. Vaughan, 235*
 Paleozoic Systems, Revision of the. E. O. Ulrich, 235*
 Palermo. Storia, monumenti, industria, etc., n., 867
 Palmer, A. H. See Rotch, A. L.
 Palmer, H., 241, 550*, 629*, 770, 878*
 Palmyra, Die Insel—als nord-amerikanische Kohlenstation, (Map), n., 939
 Pamir, Languages spoken in the Western. A. Hjuler, 793*
 Pan American Union. J. Barrett, n., 211
 Panama: ¶Documentos relativos á la Controversa de limites con la Republica de Panama, 625; Panama in 1910, 148*; Commerce of—1911, 790*; Panama. The Canal, The Country, and the People. A. Edwards, *rev.*, 374
 Panama Canal: ¶Der Panamakanal. Bedeutung des Kanalbaues, seine Technik und Wirtschaft. M. D. Fiegel, n., 307; Official Handbook. Second Ed., 70*; J. Pennell's Pictures of, etc., 925*; Present Condition of the [In Japanese]. H. Yamamoto, 551*; Present Progress on—. G. Fortescue, 392*; Travaux actuels du canal. P. Denis, 148*; Panama Canal Traffic and Tolls. Preliminary Statement. E. R. Johnson, 1912, 790* ¶Map: Trade Routes and Distances by existing lines and by the Panama Canal, 799*
 Panama Canal Zone. C. F. Adams, 550*
 Panay, Chart of Harbor, 636*
 Panjkora Kohistan, A Summer Explor-

- ation in the. S. H. Godfrey, 872*
 ¶ Map to illustrate Route of —, *n.*, 936
 Papacy, History of the. M. Creighton, 942*
 Papua: ¶ Le Cannibalisme des Papous de la Nouvelle-Guinée. E. Dupuy, 794*; Exploration in Papua. M. S. Smith, 712*; Exploring in. L. L. Bell, 712*; Handbook of the Territory of, *n.*, 60; Through Polynesia and Papua. F. Burnett, *rev.*, 540 ¶ Maps of Papua: Central Papua, Route and Explorations of D. Mackay and W. S. Little, *n.*, 80; Sketch Map showing Explorations in the Western Division of. S. Smith, *n.*, 560
 Para, The Port of. A. Hale, 931*
 Paraguay: ¶ Journal of Alvar Nuñez Cabeza de Vaca. F. Bandelier, 940*; Paraguay in 1910, 148*; —. Versuch einer morphologischen Betrachtung seiner Landschaftsformen. K. Carnier, 552* ¶ Map: Paraguay d'après la carte de F. Ladouce, 317*
 Parahyba, Maps: Mappa dos Estados . . . e Parahyba com parte dos estados limitrophes pelo Serviço Geol. e Mineral. do Brasil, *n.*, 475; Plan of — in 1634, *n.*, 320
 Pareau, A. H., 315*
 Paredes, R., 870*
 Paris: ¶ Description de la ville de Paria. (1713). G. Brice, 941*; — et ses Environs. Manuel du Voyageur. K. Baedeker, 68*; Géologie du Bassin de. P. Lemoine, *rev.*, 785 ¶ Map: Environs de Paris dans un rayon de 30 kilomètres, *n.*, 799
 Park City Dist., Utah, Geology and Ore Deposits of. J. M. Boutwell, 927* ¶ Maps: Geologic Map of Central Portion of, 796*; Topographic Map of— with index showing position of mines, 796*
 Parker, E. See Wheeler, A. O.
 Parker, E. W., 629*, 869*
 Parker, H. N., 69*
 Parker's (H. C.) Attempt on Mt. McKinley, 45, 230*, 686
 Parkins, A. E., 147*
 Parmentier, J., 630*
 Parsons, E., 307
 Patsch, J. See Greim, G.
 Paschinger, V., 715*
 Pasi, P., 71*, 149*, 312*
 Passarge, S., 148*, 234*, 635*, 715*, 872*
 Patagonia: ¶ Continental Watershed of. P. D. Quensel, 206; Petroleum-vorkommen in. E. O. Rasser, 790*; Sheep in Patagonia, 367; Viajes de Exploracion i Estudio en la — Occidental. H. Steffen, 466*
 Patey, Lt.-Col., 231*
 Patron, L., 555*
 Patton, H. B., C. E. Smith and Others, 869*
 Paulitschke, P., 945*
 Pavie, T., 945*
 Pavlovitch, M., 714*
 Paznaun, Das Montavon mit dem Oberen-. O. v. Pfister, 228*
 Peace River Valley, New Farm Lands in the, 286
 Peacock, N. See Kennard, H. P.
 Pears, Sir Edwin, 461
 Pearson, H. D., 931*
 Peary, Adm. R. E., Personal, 370
 Peck, A. S., 298
 Peconic Bay, L. I. Chart, 236*
 Pécsi, A., 235*
 Peitz, W. M., 630*
 Pekin: ¶ Pechino e i suoi monumenti. A. Brauzzi, 473*
 Penck, A., 633*, 713*, 874*, 876*
 Pennell, J., 925*
 Pennell, T. L., 945*
 Pennsylvania: ¶ Agriculture. Census 1910, 311*; Coal, Oil and Gas of the Foxburg Quad. E. W. Shaw and M. J. Munn, 311*; Conservation of — Coal Supplies. E. W. Parker, 869*; Conservation of Water. F. Gannett, 710*; Falckner's Curieuse Nachricht von Pennsylvania. The Book that Stimulated the Great German Emigration to Pennsylvania. A Reprint of 1702 Edition. Amplified etc. by J. F. Sachse, 946*; Narratives of Early —, West New Jersey, etc.: A. C. Meyers 945*; The Negro in Pennsylvania. Slavery-Servitude-Freedom. 1639-1861. E. R. Turner, *n.*, 547; Manufactures, Census 1910, 929* Mineral Pigments of. B. L. Miller, 928*; Population, Census 1910, 229* ¶ Maps of Pennsylvania: Burgettstown Quad.: Areal Geology, Structure and Economic Geology, 878*; Unsymmetrical drainage of Burgettstown and Carnegie Quads., 878*; Carnegie Quad.: Areal Geology, Structure and Economic Geology, Oil and Gas, 878*; Chambersburg Quad.: Areal Geology, Structure Sections, 154* ¶ Clarion Quad.: Areal Geology, Structure and Economic Geology, Oil and Gas, 878*; Geologic Structure of, 878*; Structure of the oil bearing sands

- and of the rocks at the surface, 878*
 ☞ Claysville Quad.: Areal Geology, Structure and Economic Geology, 398*; Sketch of — showing convergence of the top of Washington limestone etc., 398* ☞ Foxburg Quad.: Areal Geology, Structure and Economic Geology, Gas and Oil, 878*; Geologic Structure of the Foxburg, Clarion, Kittaning and Rural Valley Quadrangles, 878*; Probable preglacial drainage of the northwestern part of, 878*; Structure of the oil bearing sands and of the rocks of the surface, 878* ☞ Franklin Quad., 398*; Hagerstown Quad., 934*; Hancock Quad.: Areal Geology, Structure Sections, 398*; Johnstown Quad.: Aerial Geology, Structure and Economic Geology, 153*; McCalls Ferry Quad., 877*, 934*; Mercersburg Quad.: Areal Geology, Structure Sections, 154* ☞ Pawpaw Quad.: Areal Geology, Structure Sections, 398*; Drainage Map of Pawpaw and Hancock quadrangles showing the "trellis" arrangement of the streams, 398* ☞ Quarryville Quad., 877* ☞ Sewickley Quad.: Axes of Folds in the Ames limestone member and the Hundred-foot sand in 155*; Convergence Map showing . . . vertical Distance between Ames limestone member and the Hundred-foot sand in the, 155* Trenton Quad.: Areal Geology Structure Sections, 153* ☞ Warren Quad.: Areal Geology, Economic Geology, 154*; Structure of the rocks in, 155*; ☞ Map showing distribution of glacial Deposits in Pennsylvania, 155*; Relief Map of Cumberland Valley, Appalachian valley ridges, etc., 155*; Sketch map showing probable preglacial drainage of western, 155*; Map showing general structural features in southwestern Pa. by contours of horizon of the Pittsburg coal, 398*; Sketch Map showing probable preglacial drainage of western, 878*; Sketch Map of oil and gas fields of western — and adjoining States, 399* Pennybacker, J. E., Jr. and M. O. Eldridge, 928* Penobscot Bay, Chart, 235* Penobscot R. Basin: ☞ Water Resources of the. H. K. Barrows and C. C. Babb, 627*; Penobscot River Drainage Basin. H. K. Barrows and Others, 391* ☞ Map: Penobscot Drainage Basin, n., 796
- Penrose, R. A. F., 394*
 Peoria Quad., Ill., Geology and Mineral Resources of. J. A. Udden, 628*
 Pepper, C. M., 57
 Pepperberg, L. J. and W. R. Calvert, 928*
 Peppler, A., 795*
 Pera, G., 149*, 632*
 Peres, B., 873*
 Périgny, M. de, 142*, 373, 466, 790*, 870*
 Péringuey, L., 148*
 Perlewitz, P., 635*, 715*
 Pernambuco, Map: ☞ Attack on Pernambuco by the Dutch in 1630 (After a Dutch engraving), 320*
 Perrier, G., 311*
 Perrier de la Bathie, H., 149*; See also Jumelle, H.
 Persia: ☞ Behind the Veil in — and Turkish Arabia. M. E. Hume-Griffith, 943*; De la Caspienne à Téhéran. J. Herbette, 150*; From Constantinople to the home of Omar Khayyam. A. V. W. Jackson, *rev.*, 698; History of the Early Kings of. (transl. from the Persian of Mirkhond). D. Shea, 947*; Histoire des Mongols de la Perse par Raschid-Eldin. Persian text with translation, notes, and memoir. H. T. Quatremère, 946*; Journaal der Reis van den Gezant der O. I. Compagnie Joan Cunæus naar Perzië in 1651-1652. Gehounden door C. Speelman, n., 467; Reform of. A. C. Yate, 873*; Le Strade di penetrazione e di comunicazione interna in Persia. E. Bravo, 394*; Trans-Persian Railway, 873* ☞ Maps of Persia: Map of Persia, n., 399; Map of Sven Hedin's Route from Teheran to Seistan, n., 399; Perse, Afghanistan et régions limitrophes, n., 238; Zug des Xenophons bis zum Schwarzen Meere. E. v. Hoffmeister, n., 400
 Persian Gulf: ☞ Zur Geographie des Persischen Meerbusens. M. R. Funke, 150*; La situation dans le Golfe Persique et les intérêts anglais. J. Barth, 712*
 Peru: ☞ Les Académiciens au Pérou (1735-1744). G. Perrier, 311*; Account of the Yale-Peruvian Expedition: The Cañon of the Urubamba. I. Bowman, 881; Anotaciones a la "Historia Indica" del Capitan Pedro Sarmiento de Gamboa. H. Steffen, 227*; Estadística minera, 1909-10. C. P. Jimenez, 870*; Incas of. Sir Cle-

- ments R. Markham, *rev.*, 858; El Laudo Argentino. Inaceptable para Bolivia. Inconveniente para el Perú. A. Ballivian, 226*; Apuntes sobre el triángulo formado por los Perené, Putumayo y Pampa Hermosa. C. Bues, 552*; Diccionario político geográfico del Perú. C. B. Cisneros, 552*; Discovery of Pre-Historic Human Remains near Cuzco. H. Bingham, 552*; Expansión económica del Perú. E. Bravo, 552*; Irrigation in. C. H. Sutton, 791*; Zur Kenntnis der Bevölkerung der Sierra von Nordperu. W. Sievers, 791*; New Authentic Railway and Mining Map of, 791*; New Lighthouses in, 851; Peru in 1910, 148*; Peru: its story, people and religion. G. Guinness, 943*; Preliminary Report of the Yale-Peruvian Expedition. H. Bingham, 20; French Delimitation Commission, 915; The present conditions of Petroleum Industry in. R. A. Deustua, 791*; Production of Cocaine in. A. Rabines, 312*; Provincia litoral de Tumbes. T. Suarez, 552*; Quiruvilca R.R. with special reference to Coal and Mineral Resources. E. du B. Lukis, 552*; Salt Industry of. M. G. Montero y Tirado, 311*; Reisen in Bolivien und Peru. R. Hauthal, *rev.*, 614; Search for Apex of America. High Mountain Climbing in Peru and Bolivia, etc. A. S. Peck, *rev.*, 298; Study of Question of Boundaries between — and Ecuador. V. Santamaría de Paredes, *rev.*, 857 ¶ Maps of Peru: Map accompanying "Following the Conquistadores," etc., 317*; Map showing Huascarán and the Author's (A. S. Peck's) Route, *n.*, 317; Railway and Mining Map of, *n.*, 798; Reise-route von R. Hauthal, 78*
- Pessler, W., 396*
- Peters, M. C., 229*
- Peters, W. J. See Bauer, L. A.
- Petersen, J., 714*
- Petiton, M. A., 945*
- Petrie, G., 945*
- Petroleum: ¶ Oil-Finding. Introduction to Geological Study of Petroleum. E. H. C. Craig, *n.*, 787; Output of Certain Minerals and Metals in the World, 234*
- Pettersson, O., 876*
- Petit, J. H. See Hopkins, C. G.
- Peucker, K., 395*, 876*
- Peyrissac, L., 630*
- Pfälzerwald, Karte des, *n.*, 479
- Pfandl, L., 396*
- Pfaundler, R. v., 73*
- Pfeil, J., 932*
- Pfister, O. v., 228*
- Phalen, W. C., 869*
- Phayre, Sir A., 946*
- Philadelphia: ¶ Industrial —. J. J. Macfarlane, 628*, 928* ¶ Chart: Philad.lphia Water Front, 236*
- Philippine Islands: ¶ Alcohol Industry of the. Study of some Palms of Commercial Importance with special reference to the Sap and their uses. H. D. Gibbs, 313*; Apuntes Interesantes sobre las Islas Filipinas, 940*; Bull. of the Weather Bureau, Manila Central Observatory, 1910, 313*, for 1911, 793*; Colonización de Filipinas. M. Sastrón, 946*; Le copra aux Iles Philippines. L. Nemry, 554*; Erzlagerstätten . . . mit Einschluss von Philippinen nach Geschichte, Form, usw. C. L. Henning, *rev.*, 613; Forests of the. J. P. Goode, 81; Forests of the. H. N. Whitford, 712*; Los Frailes Filipinos, 940*; Industrial Education in the, 773; Mineral Resources. Production of Commercial Mineral Products in 1910, 473*; Philippine Progress, 873*; Price List of Philippine Photographs for sale by Bur. of Sc., 873*; Recent Volcanic Eruption in the. C. A. Gilchrist, 313*; Soils and Some of the Factors which influence them. A. J. Cox, 232* ¶ Government Reports: Ann. Rep. of the Director of the Weather Bureau, 1907 Part 2: Meteorological Observations made at Secondary Stations during 1907, 793*; — for 1908, Part 3, 873*; Annual Rep. of the Philippine Commission, 1911, 712*; Acts of— and Legislature, 712*; Eleventh Ann. Rep. of the Director of Education, 1910-11, 554*; Tenth Annual Report, Bur. of Sc., 1911. P. C. Freer, 712* ¶ Maps of Philippine Islands: Geologic Reconnaissance Map of Mindanao *n.*, 937; Charts U. S. Coast and Geod. Survey: Central Part of Philippine Islands, 636*; Northern Part of: Manila Bay to Formosa, 237*; Harbors and Anchorages in Luzon, Mindanao, Cebu, Samara, etc., 237*; Harbors in Mindanao & Panay, 636*
- Philippson, A., 313*, 553*, 559
- Phillimore, L., 787*
- Phillips, D. See Kinney, G.
- Phillips, W., 946*

- Phoenix Boundary Dist. B. C., *Geology and Ore Deposits*. O. E. LeRoy, 930*
- Photography: ¶ *Angewandte Photographie in Wissenschaft und Technik*. K. W. Wolf-Czapek, *n.*, 468
- Physical Geography: See under Geography.
- Physical Tables, Smithsonian. F. E. Fowle, 635*
- Physiography: ¶ *Physiography for High Schools*. A. L. Arey, F. L. Bryant, and Others, *rev.*, 384; Outline of. J. W. Redway, 229*; Study in Physiographic Presentation. Colorado Front Range. W. M. Davis, 469*
- Pibor River. H. D. Pearson, 931*
- Pierre, C., 871*
- Piers, H., 930*
- Pietschmann, V., 149*
- Pigozzi I. G., 709*
- Pike, Zebulon Montgomery, Expedition of—to the Sources of the Mississippi. E. E. Martin, 69*
- Pilhofer, G., Fliert and Meier, H., 79*; — and Barich, 938
- Pillsbury, J. E., 928*
- Pine: ¶ *Scrub Pine (pinus virginiana)*. W. D. Sterrett, 788*
- Pines, Isle of: See Isle of Pines.
- Pinilla, C. F. See Ballivián, M. V.
- Piquet, V., 533, 946*
- Pishel, M. A., 928*
- Pittier, H. F., 789*
- Place Names: ¶ *Antarctic Names*. E. S. Balch, 561; *Deutschen Ortsnamen im Nordostdeutschen Kolonialgebiet*. F. Curschmann, *n.*, 626; *Place-Names in North rn Canada*. J. White, 230*; *Place-Names in Quebec*. J. White, *n.*, 307; *British Place-Names in their Historical Setting*. E. McClure, 144*; *Place-Names of Berkshires*. W. W. Skeat, 144*; *Orbis Latinus—oder Verzeichniss der wichtigsten lateinischen Orts- und Ländernamen*. J. G. Th. Graesse, 943* ¶ See also Geographic Board of Canada and—of the United States, Decisions.
- Plants: ¶ *Account of Economic Plants of the World and their Commercial Uses*. W. G. Freeman and S. E. Chandler, *rev.*, 545; *Alpine — of Europe together with Cultural Hints*. H. S. Thompson, *n.*, 143; *Alpinist und Alpenflora*. C. C. Hosseus, 633*; *Beiträge zur Flora Siams*. C. C. Hosseus, 473*; *Catalogue of flowering plants and ferns of Connecticut growing without cultivation*. C. B. Graves, E. H. Eames, and Others, 710*; *Distribution of Plants in British East Africa*. E. Battiscombe, 71*; *Entwicklung der Pflanzengeographie der Ostalpen in den letzten zehn Jahren*. J. Stadlmann, 794*; *Evolution of Plants*. D. H. Scott, *rev.*, 141; *Flora of Murlington and Vicinity*. N. F. Flynn, 391*; *Flora Koreana*. T. Nakai, 873*; *Influence of Low Temperatures on Distribution of the Giant Cactus*. F. Shreve, 528; *Flora of Jamaica. Orchidaceæ*. W. Fawcett and A. B. Rendle, 392*; *Flora of Racine and Kenosha Counties, Wis.: List of Fern and Seed Plants growing without cultivation*. S. C. Wadmond, 147*; *Flora der Umgebung der Stadt São Paulo*. A. Usteri, *n.*, 307; *Links with the Past in the Plant World*. A. C. Seward, 309*; *Materials for a Flora of Formosa*. B. Hayata, 232*; *Natural Vegetation as an Indicator of Possibilities of Land for Crop Production in Great Plains Area*. H. L. Schantz, *rev.*, 128; *New Plant Immigrants*. D. Fairchild, 234*; *Plant Geography of Ardgool*. T. Nisbet, 234*; *Die Pflanzenwelt Afrikas insbesondere seiner tropischen Gebiete*. Vol. 1. A. Engler, *rev.*, 920; *Die Pflanzenwelt Dalmatiens*. L. Adamović, 926*; *Plant-Life on Land considered in some of its Biological Aspects*. F. O. Bower, 228*; *New Zealand Plants and Their Story*. L. Cockayne, *rev.*, 60; *Plants of Monroe Co., N. Y.*, etc. F. Beckwith, M. E. Macauley and M. S. Baxter, 146*; *Relation of Climax Vegetation to Islands and Peninsulas*. R. M. Harper, 635*; *River-Bank Vegetation of Lower Apalachicola, a New Principal illustrated Thereby*. R. M. Harper, 310*; *Sand Strand Flora of Marine Coasts*. P. Olson-Seffer, 315*; *Spring Flora of Wasatch Region*. A. O. Garrett, 142*; *Types of British Vegetation*, 144*; *Vegetation of Caithness considered in Relation to Geology*. C. B. Crampton, 714*; *Vegetation of Mt. Fuji*. B. Hayata, 227*; *Vergleichende Untersuchungen über die Vegetationsformationen des inneren Nordwestdeutschland, usw.* P. Thormeyer, 309*
- Plas, J., 71*
- Plath, J. H., 945*
- Platte R. Drainage Basin. W. A.

- Lamb, W. B. Freeman and F. F. Henshaw, 146*
- Platte Valley, Neb., Early Settlements of the. D. Anderson, 788*
- Pliva Falls, Bosnia, Sketch Map of Neighborhood of, 80*
- Plunket, Lord, 314*
- Pobéguin, F., 932*
- Pösch, R., 149*, 791*, 870*, 876*, 931*, 936
- Podolia: ¶ Die Galizisch-Podolische Schwarzerde, ihre Entstehung, usw. L. Buber, 228*
- Pohlig, H., 709*
- Polakowski, H. See Fuenzalida, J. del C.
- Poland: ¶ Project for the Exploration of Polish Lakes [In Polish]. L. Sawicki, 714*; Versuch einer geognostischen Beschreibung von Polen, Galizien und Oest-Schlesien. C. v. Oeynhaus, 945*
- Polar Regions: ¶ Zur Behandlung der Polarforschung in Höheren Schulen. F. Schulze, 153*; Expéditions polaires depuis 1800. Liste des états-majors nautiques et scientifiques. J. Denucé, *rev.*, 220, 555*; Inter-Polar Commission, 611; Nansen on North Polar Exploration. C. R. Markham, 555*; Neuesten Polarreisen und die Nordwestliche Durchfahrt. E. v. Drygalski, 152*; Polar Meeting at the Amer. Mus. of Nat. Hist., 288; Swedish South Polar Expedition. O. Nordenskjöld, *rev.*, 514
- Pole, North: ¶ My Attainment of the Pole. F. A. Cook, 390*; The Great White North. H. S. Wright, *rev.*, 63; Negro Explorer at the North Pole. M. A. Henson, *n.*, 548
- Pole, South: ¶ Amundsen's Expedition to the, 822; Amundsen's och Scotts färder til sydpolen. O. Nordenskjöld, 876*; Amundsen am Südpol. H. Singer, 714*; Eroberung des Südpols. Norwegische Südpolarfahrt mit dem Fram 1910-1912. R. Amundsen, *rev.*, 903; Sydpol-Forskning. O. J. Skattum, 876*
- Polesie, Militärgeographische Skizze des (Map). G. Kuchinka, 159*
- Polifka, R. W., 151*
- Political Economy: ¶ Essai Politique sur le Revenu public des peuples de l'antiquité, du Moyen Age, des siècles modernes et spécialement de la France et de l'Angleterre. Ch. Ganith, 942*
- Polynesia: ¶ Beach-La-Mar. The Jargon of Trade Speech in the Western Pacific. W. Churchill *n.*, 60; Churchill's — Work, 853; Migrations of Polynesians according to Evidence of their Language. J. M. Brown, 794*; Through Polynesia and Papua. F. Burnett, *rev.*, 540
- Pomerania: ¶ Beiträge zur Siedlungskunde Neu-Vorpommerns und der Insel Rügen. R. E. Müller, 73*; Geschichte von Rügen und Pommern. F. W. Barthold, 940*
- Pommerol, J., 946*
- Pompeii: ¶ Pompeii in Leben und Kunst. A. Mau, 945*
- Ponafidine, P., 302
- Ponape, Die Insel—vor und nach dem Aufstände. H. Seidel, 712*
- Ponty, Gov.-Gen., 149*
- Poole, R. L. See Hunt, W.
- Poppen, H., 794*
- Population: ¶ Bevölkerungsstatistik der Länder ohne Volkszählung. A. N. Kiaer, 716*
- Port Augusta, 150*
- Porter, C. E., 231*
- Porter, E. A., & C. E. Ellsworth, 788*
- Porter, R. P., 143*, 301
- Portland Canal, Chart, 236*
- Portland Region, Maine, Clay in the. F. J. Katz, 868*
- Port Moller and Herendeen Bay, Chart, 237*
- Portolá Expedition of 1769-1770. Diary of M. Costanso. Edited by F. J. Teggart, 234*; — Diary of Vicente Vila. Edited by R. S. Rose, 315*
- Porto Rico: ¶ Climate of. O. L. Fassig, 771; Erzlagerstätten . . . mit, Einschluss von Porto Rico, usw. C. L. Henning, *rev.*, 613; Manufactures, Census for 1910, 869*; Population, Census 1910, 629*; Report of the Governor of, 1911, 790*; Results of Observations at Coast and Geod. Surv., Magn. Observ. at Viequez. D. L. Hazard, 471*, 790*; Trade Winds in Porto Rico. O. L. Fassig, 230*
- Porto-Seguro. H. Prager, 931*
- Port Philip: ¶ —mit dem Häfen Melbourne und Geelong, 633*
- Port Pirie, Germein-Bucht mit, 150*
- Port Sudan, 688
- Portugal: ¶ Beobachtungen eines reisenden Geographen auf der Iberischen Halbinsel. G. Braun, 713*; Kulturgeographisches aus Portugal. A. Serbin, 713*; Le—et sa mission civilisatrice. P. Lebesgue, 474*
- Portuguese East Africa: See under Africa.

- Posen: ¶ Über das Alter diluvialen Vergleichung in den Provinzen Posen und Schlesien. O. Tietze, 151*; Geschichte des Landes. C. Meyer, 945*
- Posen, City: ¶ Entstehung und räumliche Entwicklung der Stadt. O. Dalchow, 151*
- Posnansky, A., 70*, 142*
- Potash Found in the Mohave Desert, 286
- Potato, The Sweet. B. H. A. Groth, 627*
- Potomac R. Drainage Basin. H. K. Barrows and Others, 468* ¶ Maps: Abandoned Channel of — near the Potomac R., 398*; Mattawoman Creek to Georgetown, Chart, 236*
- Post Office, British: History of the. J. C. Hemmeon, n., 548
- Poughkeepsie, Account Book of a Country Store Keeper in the 18th Century at— Records in Dutch and English 549*
- Pound, E. H., 870*
- Poutrin, L., 931*
- Powder River Oil Field, Wyo. C. H. Wegemann, 470*
- Powell-Cotton, P. H. G., 559*
- Powers, Le G., 69*
- Praesent, H., 309*
- Prager, H., 931*
- Pratt, J. H., and H. M. Berry, 869*
- Pratt, W. E. See Adams, G. J.
- Preble, E. A., 869*
- Preissler, K., 634*
- Premierstein, A. v. and S. Rutar, 946*
- Presanella, Adamello—, Sui ghiacci— dell. L. Marson, 395*
- Preusz, P., 716*
- Pribilof: ¶— Fur Seal Herd and Prospects of its Increase. C. H. Townsend, 152*
- Price, O. W., Kellogg, R. S., & Cox, W. T., 928*
- Prichard, H. H., 130
- Prince, E. E., 311*
- Prince Edward Island, Geologica Age of. L. W. Watson, 930*
- Prince George's County, Md., 629*
- Prince Rupert, B. C.: ¶ The New Port of, 287; The Port of, 686; Prince Rupert (British Columbian), 550*
- Prince William Sound, Maps: ¶ Tiefenkarte von Port Wells. L. Martin, 935*; Charts: Drier Bay, 237*; Latouche, Elrington and Prince of Wales Passages, 237*; Western Entrance to, 237*
- Prinsep, H. T., 946*
- Prothero, G. W. See Ward, A. W.
- Provence: ¶ Les Alpes de Provence. Guide du Touriste, du Naturaliste et de l'Archéologue. G. Tardieu, 867*; Les côtes de. Notes de morphologie côtière. R. Blanchard, 314*
- Prud'homme, L. A., 470*
- Prussia: ¶ Conchylienfauna der jungglazialen Ablagerungen Ostpreussens. H. Menzel, 151*; Flora der jungglazialen Ablagerungen Ostpreussens. J. Stoller, 151*; Über fossilführende jungglaziale Ablagerungen von interstadialen Charakter im Diluvium des Baltischen Höhenrückens in Ostpreussen. E. Harbort and Others, 151*; Geographie und Statistik von West Süd- und Neu-Ostpreussen. A. C. v. Holsche, 943*; Jahrbuch der Königl. Preuss. Geol. Landesanstalt zu Berlin, 1909, 555*; Käferreste aus Ostpreussischem Diluvium. P. Speiser, 151*; De la monarchie prussienne sous Frédéric le Grand. Comte de Mirabeau (1788), 945*; Neue Bücher Preussischer Geschichte. L. Ranke, 946*; Preussische und Brandenburgische Reichs- und Staats-Geographie. (1735). C. Abel, 939*; Salzflora und Tektonik in Anhalt, Sachsen und Brandenburg. O. v. Linstow, 151*; Süd-Preussen und Neu-Ost-Preussen. F. Herzberg, 943*; Zeitschrift des Königl. Preuss. Statist. Landesamts, 1911, 1-4 Abteil., 633*, 1. Abteil., 1912, 874* ¶ Maps: Übersicht der seit dem Jahre 1877 von den Königl. Preuss. Landesaufnahme . . . Messtischblätter: N. W. Prussia, N. E. —, S. E. —, n., 239
- Psalm Book, The Bay—. Being a Facsimile Reprint of the First Edition printed by Stephen Daye at Cambridge in New England 1640, n., 868
- Ptolemy's Maps, n., 480
- Puget Sound Drainage Basin. J. C. Stevens and Others, 311* ¶ Chart of Puget Sound: Seattle to Olympia, 236*
- Pullan, R. P. See Texier, C.
- Punjab Maps: ¶ Punjab, etc., n., 478; Punjab and Rājputāna, n., 478
- Purdie, F. B., 550*
- Putbus auf Rügen, Feuchtigkeitverhältnisse von—1854-1903. H. v. Beber, 73*
- Putumayo, Story of the. [Rubber atrocities]. R. Paredes, 870*
- Pyrenees: ¶ Phénomènes météorologiques dans les Pyrénées. Leurs conséquences. Le déboisement. L. Ru-

daux, 394*; Wanderungen in den Pyrenäen. C. Täuber, 394*
 Pyrénées, Hautes: See Hautes-Pyrénées.

Q

Quarles van Ufford, L. H., 789*
 Quatremère, M., 946*
 Quebec: ¶ Chicoutimi et Lac St-Jean. E. Rouillard, 70*; Au lac Abitibi. Le premier missionnaire de la région de M. de Bellefeuille, 550*; Le mouvement démographique dans la province de E. Rouillard, 930*; Place-names in. J. White, *n.*, 307 ¶ Map: Grenzerweiterungen der Provinzen Quebec, usw., *n.*, 934
 Quebracho, Das—gebiet in Argentinien und Paraguay. R. Lütgens, 551*
 Queensland: ¶ Burketown Mining Field. Silver-Lead and Zinc Mines. L. C. Ball, 394*; Expedition to the Gulf of Carpentaria. J. P. Thomson, 150*; Notes on Geological Age of Volcanic Activity in Southeast. E. O. Marks, 794*; Oaks and Eastern Portion of Etheridge Goldfields. E. O. Marks, 394*; Population, Census 1911, 530; Statistics of, — for 1910. Compiled by T. Weedon, *n.*, 867 ¶ Maps of Queensland: Sketch Plan of Auriferous Area, Oaks Gold Field, 560*; Geol. Sketch Map of Eastern Portion of Etheridge Goldfield, 560*; Geol. Sketch of Einasleigh and Vicinity, 560*; Sketch Map of Burketown Mineral Field showing lease groups & limestone areas. L. C. Ball, 560*
 Quensel, P. D., 206
 Quervain's (Dr. de) Trip across the Greenland Ice-Cap, 855
 Quine, J., 390*
 Quinn, T. C., 946*
 Quíñones, R. C., 392*
 Quiruvilca R.R. With special Reference to Coal and Mineral Resources. E. du B. Lukis, 552*
 Quito, A Trip from—to the Napo River. E. H. Pound, 870*
 Quitzow, W., 946*

R

Rabines, A., 312*
 Rabot, C., 235*, 385, 395*
 Radford, H. V., in the Canadian Barren Grounds, 46, 608
 Raestad, A., 875*
 Raffel, A., 946*
 Railroads: ¶ Railway Conquest of the World. F. A. Talbot, *rev.*, 862; Chemins de fer coloniaux français.

R. Godfernaux, *rev.*, 862 ¶ North America: Alaska . . . and the Railway Routes in. A. H. Brooks, 927*; Completion of — across the Florida Keys. R. M. Harper, 90; L'Isthme et le chemin de fer de Tehuantepec. T. Vuccini, 392*; Making of the Great Canadian R.R. F. A. Talbot, 211; Railroads in Alberta, 286; Railway Library, 1910, 867*; — Railways in the United States. S. Sterne, *rev.*, 620, Annual Rep. of Statistics, 1910, 629*; Railroad Traffic and Rates. E. R. Johnson and G. G. Huebner, *rev.*, 619 ¶ Map: Gray's New Map System of the United States, Dominion of Canada and Mexico, *n.*, 155 ¶ South America: another Link from La Paz to the Sea. G. Fortescue, 930*; All-Rail Route between Montevideo and Rio de Janeiro, 471*; Bolivian—, 471*; Ferrocarril y Muelle Guanta y Minas de Carbon de Narical. J. G. Aldrey, 392*; Ferrocarril de Santa Bárbara á Vigía. R. C. Quíñones, 392*; Madeira & Mamoré R.R. 48, 230*; Quiruvilca Railroad. E. du B. Lukis, 552* ¶ Africa: Chemins de fer au Congo, 553*; — du bassin du Congo, 631*; — de Guinée et la Navigation du Niger, 312*; du Katanga, 312*; du Kordofan, 871*; du Matadi au Stanley Pool, 71*; de Lobito vers le Katanga, 870*; Lobito R.R., 609; La politique des chemins de fer africains, 148*; Les chemins de fer trans-africains. A. J. Wauters, 631*; Costruzioni ferroviarie nell'Africa Orientale Tedesca. A. Corsi, 149*; German East Africa Central R.R. Completed to Tabora, 452; Tabora. Zum Fortbau der ostafrikanischen Zentralbahn zum Tanganjikasee. E. Zimmermann, 472*; Der Weiterbau der— 472*; Le projet de chemin de fer franco-allemand du Kamerun à l'Ubangi, 631*; Proposed railway Extension . . . in French West Africa, 71*; La question du Transsaharien en 1910. O. Rolland, 472*; Railroad at El Obeid, 119; Railroad in Eritrea, 48; Le transgolaïs et le transsaharien d'Alger à l'embouchure du Congo, 871*; Valeur économique des régions traversées par le chemin de fer de Djibouti à Addis Abbaba. E. de Felcourt, 931*; Du Zambèze au Tanganika. Projet anglais, 71* ¶ Maps: Carte des chemins de fer de l'Afrique Occidentale Française, 157*;

- Mombasa Victoria Railway, *n.*, 156;
 Die neue Mariut-Eisenbahn von Alexandrien bis Marsa Matruh. G. Kaiser, *n.*, 477; ¶ Asia: Bagdad Railway and Why it is of Interest to the United States. A. Gleaves, 793*; Chemins de fer Indochinois. G. Salé, 72*; Die Hedschäzbahn. M. Blackenhorn, 393*; Les grands courants commerciaux du Far-West chinois et notre chemin de fer du Yunnan. Dr. Legendre, 472*; Le long du — du Yunnan. A. Aymard, 553*; Situation des — en Chine, 1911. J. Lapeyrière, 232*; Trans-Persian Railway, 873*
 ¶ Maps: Near East showing railroads finished and under Construction. Sir William Willcocks, *n.*, 937; Railway and Canal Map of India, *n.*, 478; Siberian Railways, *n.*, 320; Sketch Map to show approximately railways in Asiatic Turkey, *n.*, 937 ¶ Europe: Von Bau der Mittenwalderbahn und ihre Zukunft. R. W. Polifka, 151*; Les Chemins de fer de montagne . . . vers le sommet de la Jungfrau. A. Dauzat, 634*; Jungfrau R.R., 523
 ¶ Carte des chemins de fer, routes, & voies navigables de la Belgique, *n.*, 639; Strategische Eisenbahnen . . . in Bosnien und Herzegovina, *n.*, 80
 Rainfall: ¶ Cyclonic Unit in Rainfall (Observations. W. G. Reed, 290; What can we learn from Rainfall Records? H. H. Turner, 235*
 Rājputāna and Punjab, Map, *n.*, 478
 Ram Singh, R. S., 318*
 Randal-Maclver, On—'s and J. L. Myres' "Toudja Series" of Kabyle Pottery. A. van Gennep, 871*
 Ranke, L., 946*
 Rannie, D., 381
 Ransome, F. L., 470*, 634*, 869*
 Rask, R., 946*
 Rassam, H., 946*
 Rasser, E. O., 149*, 790*
 Rastall, R. H., 933*
 Rathgen, K., 709*
 Rathjens, C., 71*
 Raton, N. M., Graphite near. W. T. Lee, 928*
 Raunkiaer, B., 657, 872*; —'s Reiseweg im nördlichen Arabien (Map), 936*
 Rawling, C. G., 73*
 Record, Geographical: See Geographical Record.
 Red Sea, Map: Mar Rosso e Possedimenti Italiani in Africa, *n.*, 719
 Redway, J. W., 221, 229*
 Reed, J. H., 234*
 Reed, W. G., 290
 Reese, J. H., 229*
 Refrigeration: ¶ L'industrie du froid dans ses rapports avec l'agriculture. Ripert, 715*
 Regina, (Saskatch.) Rapid Growth of, 286
 Regny, P. v. de, 792*
 Reichard, A. C., 795*
 Reid, H. F., 315*, 354
 Reid, R. L., 148*
 Reid, T. H., 394*
 Reinach, L. de, 390*, 615
 Reindl, J., 713*
 Reinhard, R. See Scheu, E.
 Reinhardt, A., 473*
 Reinisch, R., 61
 Reishauer, H., 867*
 Rekstad, J., 395*
 Religion and Ethics, Encyclopædia of. J. Hastings, 943*
 Religions of the World and the World-Religion. W. F. Warren, 228* ¶ Map: Religionskarte der Erde, *n.*, 400
 Rémusat, A., Klaproth et Landresse, 946*
 Rendle, A. B. See Fawcett, W.
 René-Leclerc, Ch., 925*
 Renty, E. de, 791*
 Réunion, 393*
 Reviews and Notices: See Book Reviews and Notices.
 Reynolds, J. B., 63
 Reynolds, R. V. R., 928*
 Rhaetia: ¶ Grundliche und warhafte Beschreibung der uralten Alpischen Rhetie. (1560). Tschudi, 947*
 Rhine: ¶ The Navigable—. Development of its Shipping, the Basis of the Prosperity, and Commercial Traffic in 1907. E. J. Clapp, *n.*, 467
 Rhine Province: Wirtschaftliche Abhängigkeit Rheinland-Westfalens vom Boden. M. Eckert, 314*
 Rhode Island: ¶ Agriculture. Census 1910, 311*; Manufactures, Census for 1910, 869*; Population, Census 1910, 147*
 Rhodesia: ¶ Development and Progress of. G. de Hochepied Larpent, 793*; Geography and Economic Development of British Central Africa. A. Sharpe, 710*; Hittites in Africa. J. K. Erskine, 231*; New Day in Rhodesia. C. Boyd, 231*; —Rhodesia and its Prospects. B. Wilson, 231*; La Rhodesia. P. Pasi, 149*; — of To-Day (1895). E. F. Knight, 944*; Du Zambèse au Tanganika, Projet anglais de chemin de fer, 71*; Zur

- Simbábye-Frage. R. Pöch, 149* **¶** Map accompanying "Geography and Economic Development of British Central Africa, *n.*, 157
- Northern Rhodesia: **¶** Bangweulu Swamps and the Wa-Unga. F. H. Melland, 149*; Great Plateau of Northern—. C. Gouldsbury and H. Sheane, *rev.*, 458; Northeastern and Northwestern to be known as Northern Rhodesia, 207 **¶** Map: North Eastern Rhodesia. Map showing Native Tribes, *n.*, 318
- Southern Rhodesia: **¶** Preliminary List of the Plants of. F. Eyles, 711* **¶** Map: Sketch Map showing the routes of R. N. Hall in Mo-Karanga country, 1908, *n.*, 477
- Rhön, Geologische Beschreibung des Dammersfeldes in der — und seiner südwestlichen Umgehung. O. Dreher, 151*
- Rhône Valley: **¶** Contributions à l'histoire de la vallée du Rhône à l'époque pléistocène. Le défilé de Fort-de-l'Ecluse. W. Kilian, 474*
- Ricchieri, G., 794*
- Rice: **¶** Der Reis. Geschichte, Kultur und geographische Verbreitung, seine Bedeutung für die Wirtschaft und den Handel. C. Bachmann, 795* **¶** Maps: Verbreitung und Intensität des Reisbaus in Asien;—Auf der Erde. C. Wachmann, *n.*, 320
- Rich, J. L., 311*
- Rich-rd, J., 555*
- Richards, R. W., 69*; — and G. R. Mansfield, 229*, 470*
- Richman, I. B., 371
- Richmond, Va., Economic Geology of — and Vicinity. N. H. Darton, 710*
- Richthofen, F. v., 946*
- Ridgway, R., 549*
- Rieger, M., 467*
- Ries, H. and J. Keele, 230*, 789*
- Riese, A., 946*
- Riggs, T., Jr., 788*
- Ring, T., 879*
- Rio Grande do Norte, Map, *n.*, 476
- Rio Grande do Sul, Map of—showing position of belligerents . . . 1776, etc., 320*
- Rio de Janeiro, Map: Rio de Janeiro harbour. Position of belligerents . . . 1711 (After an old map), 320*
- Rio de la Magdalena, Informe sobre las aguas del. J. S. Agraz, 70*
- Rio Juqueryqueré, Exploração do, 230*
- Rio Martin, La carretera de— á Teuán, 231*
- Rio Uaupes, Map, 317*
- Ripert, 715*
- Rivers, W. H. R., 234*, 879*
- Rivers: **¶** Concentration Versus Transportation a Need of Accurate Measurements of Stream Work. G. B. Shattuck, 715*; Notes on Deflective Effect of Earth's Rotation as shown in Streams. C. Cobb, 475*; Life along a Graded River (Missouri R.). F. V. Emerson, 674, 761
- Rivet, P., 311*
- Road Making: **¶** Highway Engineering as presented at the Second International Road Congress, Brussels, 1910. A. H. Blanchard and H. B. Drowne, *rev.*, 621
- Roanoke River Basin. M. R. Hall and J. G. Mathers, 710*
- Roberts, P., 306*
- Robison, C. H., *n.*, 64
- Robinson, C., 946*
- Robinson, F. P., 310*
- Robson, Mt.: See Mount Robson.
- Rochester, N. Y.: **¶** New Map of, 365 **¶** Map: Rochester Special Map, *n.*, 557
- Rockhill, W. W., 668
- Rocks: **¶** The Changeful Earth. Introduction to the Record of the Rocks. G. A. J. Cole, 468*; Gabbros and associated rocks at Preston, Conn. G. F. Laughlin, 628*; Rocks and their Origin. G. A. J. Cole, *n.*, 626
- Rocky Mountains: **¶** Ascents in the Canadian Rockies. V. A. Fynn, 789*; Canadian Rockies north of Mount Robson. J. N. Collie, 629*; On the Canadian — North of the Yellow Head Pass. J. N. Collie, 550*; Engelmann Spruce in the—, growth, volume and reproduction. E. R. Hodson and J. H. Foster, 788*; Exploration in the — North of the Yellowhead Pass. J. N. Collie, 550*; First Ascent of Grand Mountain. H. Palmer, 629*; Saddle and Camp in the Rockies. D. Wallace, *n.*, 131; Variations in Temperature at Summit and Base Stations in Central — Regions. A. J. Henry, 310*; Wanderungen in den Rocky Mountains. Im Schatten der Red Beds. C. L. Henning, 788* **¶** Map: Part of Rocky Mts. North of Yellowhead Pass, *n.*, 558
- Rodna: **¶** Die Glazialen Züge der Rodnser Alpen und Marmaroscher Karpaten. L. R. v. Sawicki, 314*
- Rodway, J., 466
- Roe, Sir Thos. and Fryer, J., 946*
- Roeder, G., 931*

- Rogemont, P. F., 946*
 Röger, J., 626
 Rogers, J. D., 55
 Roggeveen, J. Der Reis van — ter Ontdekking van het Zuidland (1721-1722) verzameling van stukken . . . ontdekkingsplannen van A. Roggeveen (1675-1676) betreffende uitgegeven door F. E. Baron Mulert, 308*
 Rohrbach, P., 148*
 Rohbock, L. and C. Koehler, 946*
 Rohlf, G., 946*
 Rolland, O., 472*
 Romanes, J., 789*
 Romans, The Art of the. H. B. Walters, 948*; Del Comercio de los Romanos. A. Z. de Malcorra, 944*
 Rome: ¶ Rom and die Campagna. Th. Gsell Fels, n., 867; Rome. W. W. Fowler, n., 467; Sulle acque di Roma antiche e moderne. R. Marchetti, 944*
 Ronaldson, R. See Wiese, J. D. T.
 Roorbach, G. B., 869*
 Roraima, The Latest Journey to. H. E. Crampton, 790*
 Roscher, M., 619
 Roscoe, J., 456
 Rose, A., 712*
 Rose, R. S., 315*
 Ross, E. A., 136
 Ross, P. H. W., 142*
 Ross, R., 234*
 Rotch, A. Lawrence, *Obituary*, 294
 Rotch, A. L. and A. H. Palmer, 861
 Roth, F., 74*
 Rothaug, J. G., 634*
 Rothe, K. C., 876*
 Rothpletz, A., 554*
 Rotomahana: ¶ — and District revisited Twenty-three Years after the Eruption. H. Hill, 233*
 Rottach, E., 143
 Rouard de Card, E., 625*, 941*
 Rouillard, E., 70*, 930*
 Roussilhe, H., 631*
 Royal Asiatic Society of Great Britain and Ireland, *Journal of the*. 1834-1856, 948*
 Royal Geographical Society: ¶ Award of Medals by the, 370; Research Department of, 530; Society's New Home, 773
 Rózis, A. G., 149*
 Rózis, M., 474*
 Ruanda, Auf neuen Wegen durch — und Urundi. H. Meyer, 632*
 Rubber: ¶ Le Caoutchouc. G. Demanche, 152*; Le — Production, Consumption, les plantations, etc., 234*; Le — en Afrique Équatorial. E. du Vivier de Streel, 710*; Einiges über Gewinnung und Bereitung des Kautschuks von *Ficus elastica*. A. van Gelder, 396*; The Story of Guayule, 715*; The whole Art of Rubber-Growing. W. Wicherley, n., 787
 Ruby Placer District. A. G. Maddren, 788*
 Rudaux, L., 394*
 Rudolf, Lake. A. C. Hoey, 71*
 Rudzki, M. P., 222
 Rufiji, Die Entstehungsgeschichte des unteren. J. Pfeil, 932*
 Ruge, W., 234*
 Rügen: ¶ Beiträge zur Siedlungskunde, usw. R. E. Müller, 73*; Geschichte von Rügen und Pommern. F. W. Barthold, 940*
 Rühl, A., 235*, 395*, 474*, 634*
 Ruhla, Das Glimmerschiefergebiet von, Map, 639*
 Rumania: ¶ La Roumanie. Ses Habitants — son activité économique. L. Bortoli, 233*; Rumänischen Wirtschaftsverhältnisse, 714*
 Rumelia: ¶ Bulgarien und Rumelien. S. Gopčević, 943*
 Rung, R., 234*
 Rural Economics, Principles of. T. N. Carver, *rev.*, 621
 Russell, W. S. C., 364*
 Russia: ¶ Annales de l'Observ. Central Nicolas, 1908. Observations météorologiques et magnétiques, etc., 874*; Annual of the Meteor. and Magn. Observ. of the Imp. Univ. at Odessa, 1910, 874*; Observations météorologiques faites . . . dans les stations de 2 ordre en Russie, 1907, 233*; Ausbreitung kalter Luft in Russland und Nordasien. H. v. Ficker, 73*; Colonization and Industrial Development of—in the Kanin and Timan Tundras, 875*; Fortschreiten der Erwärmungen in Russland und Nordasien. H. v. Ficker, 795*; Geological and Mineralogical Annual of Russia, 1911, 795*; Polare Grenze des Waldes in Russland, nach Untersuchungen in der Tundra der Timan-Samojeden. G. I. Tanfiljef, 145*; The Russian People. M. Baring, *rev.*, 218; La Russie et le problème des chemins de fer en Perse. M. Pavlovitch, 714*; Russian Year-Book for 1911. H. P. Kennard, n., 144; for 1912. H. P. Kennard and N. Peacock, n., 626
 Russian Empire: ¶ Cities in the Russian Empire with more than 100,000

- Inhabitants, 775; Der Seeweg nach Sibirien. B. Shitkow, 793*
- Rüstow, W., 946*
- Rutar, S. See Premerstein, A. V.
- Ruthven, J. F., 153*
- Rutter, W. P., 372
- Ruwenzori: ¶ La Hauteur du —, The Height of. E. O. Henrici, 471*, 710*
- S
- Saalach: ¶ Zur Geologie der Berge des oberen Saalachtales. F. Hahn, 73*
- Sabatier, C., 946*
- Sachse, F. J. P., 394*
- Sachse, J. F., 946*
- Sacken, E. v., 946*
- Sacramento, (Brazil), Plan of the Colony of—in 1777 (After a map of the time), 320*
- Sacramento River: ¶— Basin. B. D. Wood, 929*; Expedition on the — and San Joaquin Rivers, in 1817. Diary of Fray Narciso Duran, Edited by C. E. Chapman, 396*
- Sacramento Valley, Cal., Map, n., 75
- Saderra Masó, M., 232*
- Sadowski, B. I., 290
- Sahara: ¶ About . . . Biskra, Timgad, etc. C. Thomas-Stanford, *rev.*, 535; Among the Women of the. J. Pommerol, 946*; Contribution à l'étude du magnétisme terrestre dans le. N. Villatte, 711*; Deux années dans le— Central. Capt. Cortier, 149*; La France et la Turquie dans le— Oriental. E. Rouard de Card, n., 625; Ma Mission de 1893-4 chez les Touareg Azdjev. F. Fourreau, 942*; Notes sur les Touareg Ajjer. Aperçu sur l'oasis de Djanet et son utilisation. Lieut. Ardaillon, 472*; Les Oasis de l'Oued Rir'. H. Jus, 944*; La question du Transsaharien en 1910. O. Rolland, 472*; Rapport de Tournée. In-Salah, Hassi-Boughessa, Fort-Motylnski, c'c. Lieut. Duclos, 472*; Sahara Soudanais. R. Chudeau, *rev.*, 696; Sahara, oder, Von Oase zu Oase. J. Chavanne, 941*; Touat, Sahara et Soudan. C. Sabatier, 946*; Le transcongolais et le transsaharien d'Alger à l'embouchure du Congo, 871*; A travers le. Du Tidikelt au Niger par Ahaggar. J. Aubry, 472* ¶ Maps: The Orient: Sahara. E. Banse, n., 240; A travers le Sahara Central, 318*
- Sainsbury, E. B., 946*
- St. Clair Weede, E., 860
- St. John R. Drainage Basin. H. K. Barrows and Others, 469*
- St. John, R. F. St. A., 66
- St. Lawrence: ¶ Twenty-foot Terrace and Sea Cliff of the Lower. J. W. Goldthwait, 147*, 287
- St. Lawrence, Gulf: ¶ Notes on the Geology of. J. M. Clarke, 70*, 927*
- St. Louis R., Maps: ¶ St. Louis R. at the stage when it cut its valley and emptied directly into Lake Nipissing, 76*; The present — which has been converted into estuary by post-Nipissing tilting, 76*; Drainage of the St. Louis and Mississippi Headwaters, before the stream captures, — at present, after stream captures and diversions, 76*
- St. Martin, L. Vivien de et Fr. Schrader, 799
- St. Petersburg, Plan of, n., 639
- Salé, G., 72*
- Salem, Mass.: ¶ Old Naumkeag. An historical Sketch of the City of. C. H. Webber & W. S. Nevins, 948*
- Salisbury, R. D., Personal, 691
- Salmon, E., 875*
- Salt. (Output of certain Minerals and Metals in the World,) 234*
- Salvador: ¶ Salvador in 1910, 70*; — of the Twentieth Century. P. F. Martin, *rev.*, 455
- Salvator, Archduke Ludwig, 467*
- Salween, Ergebnisse der Reise der ermordeten Dr. Brunhuber und Schmitz zum oberen. M. Hammer, 793*
- Salzach and Inn, Map: ¶ Karte des Inn- und Salzachgletchers, 480*
- Samar, Chart of Port and Bay on the N. Coast of, 237*
- Samoa Is: ¶ Most Important Principles of Samoan Family Law and the Laws of Inheritance. E. Schultz, 233*; Samoanisches Familien-Immobilier- und Erbrecht. E. Schultz, 633*
- German Samoa: ¶ Das deutsche Schutzgebiet, 394*; Handel Samoas im Jahre 1910. R. Deeken, 233* ¶ Map: Die Deutsche Samoa-Insel Apolima. K. Wegener, 239*
- American Samoa: ¶ New Map of the American Samoan Islands, 506; United States possessions. Census of the. 1912, 689 ¶ Maps: Nordamerikanischen Samoa-Inseln. Manua, Tutuila. K. Wegener, n., 718
- Samoyed (Ya-mal) Peninsula, Map: ¶ S mojudenhalbinsel. B. M. Shitkov, n., 238

- Sand, Experiments on the Settlement of — in Running Water. J. S. Owens, 555*
- Sand Dunes: ¶ Beiträge zur morphologischen Entwicklungsgeschichte der deutschen Nordseeküste mit besonderer Berücksichtigung der Dünen tragenden Inseln. W. Ordemann, 874*; Dünenbuch. F. Solger, P. Graebner, and Others, *rev.*, 617; Einige Ergebnisse entwicklungsgeschichtlichen Studien an europäischen Flachlandsküsten und ihren Dünen. G. Braun, 314*, 873*; Landes and Dunes of Gascony. C. Cobb, 314*; Sandbänke an der Küste der Deutschen Bucht der Nordsee. H. Poppen, 794*
- ¶ Maps: Duinen tusschen Scheveningen en Katwijk, *n.*, 159; Skizze der älteren und jüngeren Dünengenerationen der Kurischen Nehrung bei Schwarzort, 159*; Skizze der Entwicklung des Darss, 158*
- San Francisco Bay: ¶ — Drainage Basins. W. B. Clapp and F. F. Henshaw, 469*; Expedition to — in 1770. Diary of Pedro Fages. Edited by H. E. Bolton, 69*
- San Francisco to Point Arena, Chart, 796*
- Sangpo-Brahmaputra Problem, 122
- San Joaquin R. Basin. D. B. Wood, 929*
- San Joaquin Valley, Cal.: ¶ Prel. Report on Geology and Possible Oil Resources of South end of. R. Anderson, 310*; Map to illustrate above, 557*
- San José de Costa Rica. A. Hale, 471*
- San Juan Dist., Col., Physiographic Studies in the. W. W. Atwood, 468*
- San Juan Harbor, Porto Rico, Chart, 236*
- San Juan Mts., Col., Evidence of three distinct glacial Epochs in Pleistocene History of the. W. W. Atwood and K. F. Mather, 927*
- San Juan, Utah, Geology of the — Oil Field. E. G. Woodruff, 470*
- Sta. Maria de Chilapa, Estudio sobre la ciudad de. V. de P. Andrade, 392*
- Santamaría de Paredes, V., 857
- Santo Domingo: ¶ Brief Statistical and Geographic Review, 1910, 930*; Commerce for 1911, 790*; Dominican Republic in 1910, 70*; La République Dominicaine. T. Streitberg, 710*
- São Paulo, Topographic Map of the State of, *n.*, 476
- São Paulo, City: ¶ Flora der Umgebung der Stadt. A. Usteri, *n.*, 307
- Sapper, K., 150*, 208, 394*, 789*, 870*
- Sastrón, M., 946*
- Sargent, R. H., 481
- Sarmiento de Gamboa, Pedro, Anotaciones a la "Historia Indica" del Capitan. H. Steffen, 227*
- Savaii: ¶ Das Ende des Mat-vanua-Ausbruchs auf. K. Sapper, 394*; Thunderstorms of the Islands of Savaii and Upolu. K. Wegener, 527; Volcano of Matavanu in. T. Anderson, 314*
- Savannah River Basin. M. R. Hall and J. G. Mathers, 710*
- Saville, M. H., 625*
- Savoy: ¶ Les Alpes de Savoie. E. Gaillard, 926*; La Neige en Savoie. P. Mougin, 314*
- Sawicki, L. R. v., 314*, 714*, 795*
- Saxony: ¶ Das Königreich Sachsen. L. Rohbock and C. Koehler, 946*
- Say, L., 946*
- Scala, R. v., 795*
- Scandinavia: ¶ Die Chronologie der ältesten Bronzezeit in Nord-Deutschland und Skandinavien. O. Montelius, 945*; Die Ureinwohner des Scandinavischen Nordens. S. Nilsson, 945*
- "Scandinavian Sea," Map: ¶ Das skandinavische Senkungsgebiet mit Randhebungszentren. G. De Geer, *n.*, 939
- Schachner, R., 308*
- Schachtzabel, A., 392*
- Schantz, H. L., 128
- Schanz, M., 466*
- Scharff, R. F., 707
- Schenectady Quad., Glacial Geology of. J. H. Stoller, 628*
- Scherman, L., 712*
- Scheu, E., 235*
- Scheu, E., R. Reinhard and F. Jaeger, 874*
- Schlaginhausen, O., 617
- Schleswig-Holstein: ¶ Gliederung des Schleswig-Holsteinischen Diluviums. C. Gagel, 151*; Literatur zur Geologie — seit 1888. C. Hein, 233*
- Schmeckebeier, L. F., 928*
- Schmick, 630*
- Schmidt, E., 73*, 151*, 397*
- Schmitt, A., 351*
- Schneider, C., 946*
- Schneider, Capitaine, 393*
- Schnell, P., 157*, 552*, 792*, 933*, 936*
- Schoff, W. H., 224
- Schöne, E., 709*
- Schönebeck, A., 313*

- Schönith, G. W., 227*
 Schopper, Jacob, 947*
 Schorn, J., 875*
 Schott Melrir, Oasenverwässerung im Becken des. B. W. Schönith, 227*
 Schrader, F. and L. Gallouédec, 309*, 800*
 Schrader, F. C., 869*, 928*
 Schrader, Fr. See St. Martin, L. Vivien de
 Schröder, P., 719*
 Schubert, R., 712*
 Schultz, E., 233*, 633*
 Schultz, A. R. and W. Cross, 869*
 Schultze, E., 395*
 Schulz, B., 715*
 Schulze, F., 153*
 Schulze, F. W. O. See Solger, F.
 Schulze, J., 872*
 Schumacher, G., 399
 Schütz, L. H., 388, 787*
 Schütze, H., 938*
 Schwarze, W. N. See Hulbert, A. B.
 Schwarzort, Map: ¶ Skizze der älteren und jüngeren Dünengenerationen der Kurischen Nehrung bei, 159*
 Schwetz, J., 932*
 Science, A List of Books on the History of— The John Crerar Library. A. G. S. Josephson, 145*
 Scilly Islands: ¶ The Isles of. J. Mothersole, *n.*, 62; Die Scilly-Inseln. G. W. v. Zahn, 714*
 Scobel, Prof. Albert, *Obituary*, 294
 Scotland: ¶ Density of Population — 1911. G. G. Chisholm, 74*; Geographical Factor in Scottish Independence. W. R. Kermack, 233*; The Making of. Sir Herbert Maxwell, *n.*, 467; The making of —: An Essay in Historical Geography. W. R. Kermack, 875*; Mean annual rainfall, 1871-1910. A. Watt, 234*; Pre-Glacial Shorelines in. W. B. Wright, 123; Picturesque Antiquities of. A. de Cardonnell, 941*; Schottland und seine Bewohner. W. Suck, 144*; Scot in America and the Ulster Scot. *n.*, W. Reid, 866; Service bathymétrique des lacs d'Ecosse. L. W. Collet, 315* ¶ Maps of Scotland: Map of Glacieluvial Kame near Polmont, 938*; Bartholomew's "Quarter-Inch to Mile Map" of, *n.*, 319; International Map: North Scotland, the Highlands, *n.*, 400
 Scott, D. H., 141
 Scott, J. G., 393*
 Scott's (R. F.), Second Antarctic Expedition. E. S. Balch, 270
 Scott, S. P., 946*
 Scott, Sir J. George, 303
 Scranton, Pa., Mining conditions under the City of. W. Griffith and E. T. Conner, 710*
 Seals: ¶ Fur-Seal Question, 234*; Making the Fur-Seal Abundant. H. M. Smith, 396*; Pribilof Fur Seal Herd and Prospects for its Increase. C. H. Townsend, 152*
 Seaman, A. E., 75*, 76*
 Searle, A. B., 468*
 Seattle Harbor, Wash., Chart, 236*
 Seawell, V. F., 551*
 Sechuan: ¶ Exploration dans le Yun-nan et dans le Sseu-tch'ouan. A. F. Legendre, 553*; Populous and Beautiful Szechuan. R. T. Chamberlin, 473*; Voyage au Sseu-tch'ouan et aux marches orientales du Tibet. G. C. Toussaint, 872* ¶ Maps of Sechuan: Itinéraire de Yae-si-hien à Fou-lin. Dr. Legendre, *n.*, 158; Itinéraire de Yun-nan-fou à Ein-pou-tse. Dr. Legendre, *n.*, 158
 Seelheim, H., 233*
 Segonzac, R. de, Results of his Moroccan Expedition, 851
 Seiches, On Evidence for Temperature. E. A. Birge, 235*
 Seidel, A., 947*
 Seidel, H., 712*
 Seismology. See also Earthquakes: ¶ Über Erdbebenwellen. Konstitution des Erdinnern, erschlossen aus dem Bodenverrückungsverhältnis usw., und einige andere Beobachtungen über Erdbebenwellen. K. Zöppritz, L. Geiger, B. Gutenberg, 715*; Über seismische Laufzeitkurven. V. Láska, 397*; Seismische Registrierungen in Wien . . . 1909. V. Conrad, 394*; La Sismicità all' Isola di Ustica e il Periodo Marzo-Aprile 1906. G. Martinelli, 626*; Sismologie moderne. Les tremblements de terre. Comte de Montessus de Ballore, *rev.*, 623; Seismotectonic Lines in southern Luzon, 873*; Society for Seismological Observation in Costa Rica, 850
 Seistan: ¶ Memoir on History, Topography, Ruins and People of the Country. G. P. Tate, *rev.*, 616
 Selangor, Federated Malay States, Map, *n.*, 318
 Seler, E., 930*, 947*
 Selkirk Mts.: ¶ Exploration of Northern, 204*; Notes on the Exploration and Geography of the Northern Selkirks. H. Palmer, 241; Selkirk Moun-

- tains. A. O. Wheeler and E. Parker, *rev.*, 694
- Sellards, E. H., 869*
- Seminar für Orientalische Sprachen zu Berlin, Kolloquium über afrikanische Sprachen am. B. Struck, 874*
- Senegal: ¶Nouveau Voyage dans le Pays des Nègres. Suivi d'études sur la Colonie du Sénégal. A. Raffinel, 946*; Le Fouladou. R. Legrand, 931*; Le port de Dakar: son rôle économique. J. Goulven, 932*
- Senn, F., 233*
- Senussi: ¶Da la confrérie des Senoussya. Labatut, 471*
- Serbin, A., 713*
- Sergi, G., 926*
- Sergoyne, O., 554*
- Servia: ¶Le développement économique de la Serbie. G. Gravier, 714*; Makedonien und Alt-Serbien. S. Gopčević, 943*; Population, Census 1910, 530; Serbien und die Serben. S. Gopčević, 943*
- Servian Geographical Society, Bulletin of the, 855
- Seton, E. T., 295, 547
- Seville: ¶Renaissance du port de Séville. A. Girard, 315*
- Seward, A. C., 309*
- Seward Peninsula, Notes on Mining in. P. S. Smith, 788*
- Seward-Sunrise Region, Gold Deposits of. B. L. Johnson, 927*
- Seyferth, P., 715*, 720*
- Seylaz, L., 232*
- Shari Territory: ¶La Région du Baïr-Sara. Maistre, 944*
- Shark River Inlet, Report on. C. C. Vermeule, 789*
- Sharpe, A., 710*
- Shattuck, G. B., 466*, 628*, 715*
- Shaw, E. W. & Munn, M. J., 311*
- Shaw, G. W. and A. J. Gaumnitz, 70*
- Shea, D., 947*
- Sheane, H. See Gouldsbury, C.
- Shelley, H. C., 144
- Sherring, M. A., 947*
- Shidlowksi, A. F., 875*
- Shimek, B., 628*
- Shitkov, B. M., 238, 793*
- Shreve, F., 476, 528
- Shrewsbury, R., Chart, 236*
- Siachen Glacier, Survey of the. F. B. Workmann, 897
- Siam: ¶Beiträge zur Flora Siams. C. C. Hosseus, 473*; Beiträge zur Flora von Wang Djao am Mä Ping in Mittel-Siam. C. C. Hosseus, 473*; Die botanischen Ergebnisse meiner Expedition 1898. C. C. Hosseus, 473*; Aus einer mittelsiamesischen Stadt. C. C. Hosseus, 793*; General Report on Operations of the Royal Survey Dept., 873*; Au Laos et au Siam. M. Bassenne, 873*; Metric System in, 208
- Siberia: ¶Geological Sketch of Gold Bearing Regions of. V. A. Obruchev, 873*; Über den gegenwärtigen Stand der Kolonisation Sibiriens, 873*; Les glaciations quaternaires dans la Sibérie méridionale et la Mongolie occidentale. A. Allix, 872*; Johann Georg Gmelin, 1709-1755. Der Erforscher Sibiriens, n., 467; Journey in Southern—. Mongols, Their Religion and Their Myths. J. Curtin, *rev.*, 460; Die Kolonisation. P. A. Stolypin & A. W. Kriwochein, n., 925; Der Seeweg nach Sibirien. B. Shitkov, 793*; Sibirien. N. Jadrinzev, 944*; Die Stellung der sibirischen Ströme im Weltverkehr. R. Hennig, 873*; Siberian Natives Dying Out. B. Peres, 873* ¶Maps of Siberia: Greater Siberia. E. Banse, n., 240; Siberian Railways, n., 320
- Sicily: ¶I Barbari e i Bizantini in Sicilia. B. Pace, 945*; Geophysikalische Zusammenhänge und kulturelle Lehren der Erdkatastrophen Süditaliens und Siziliens. W. Krebs, 874*; Sicilia. Guide regionali illustrate, 146*; La Sicilia illustrata. G. Chiesi, 941*; Southern Italy and — Handbook for Travellers. K. Baedeker, n., 926
- Sidéridès, N. A., 233*
- Siebertz, P., 62
- Sierra Leone: ¶Les frontières de la Guinée Française, de—et du Liberia. A. Terrier, 931*
- Sierra Nevada of Cal., Tertiary Gravels of the. W. Lindgren, 69* *rev.*, 908 ¶Maps illustrating above, n., 75
- Sievers, W., 475*, 791*, 947*
- Sikandar Nāma, e Barā, or Book of Alexander the Great. By Abū Muhammed Bin Yusuf Bin Mu, Ayyid-I-Nizamu'd-Din. Transl. by H. W. Clarke, 941*
- Sikhs, The History of the. W. L. McGregor, 944*
- Sikkim: ¶Mountains of Northern Sikkim and Garhwal. A. M. Kellas, 872* ¶Maps: Northern Sikkim, 936*
- Silesia: ¶Über das Alter diluvialen Vergletscherung in den Provinzen Posen und Schlesien. O. Tietze, 151*;

- Historische und Geographische Beschreibung der Herzogthums Schlesien (1741), 940*; Topographia Bohemix Moravix et Silesix. M. Merian, (1650), 945*; Versuch einer geognostischen Beschreibung von Polen, Galizien und Oest-Schlesien. C. v. Oeynhaus, 945*
- Silk, World's Production of—in 1911. E. R. E. Vickers, 876*
- Silver: ¶ Influence of Gold and Silver Mining upon the Characters of Men. G. D. Hubbard, 396*; Output of Certain Minerals and Metals in the World, 234*; Silver and Gold Mining and Reduction Processes as Responses to Geographic Condition. G. D. Hubbard, 234*
- Simon, E., 632*
- Simon, J., 553*
- Simotomai, H., 394*, 793*
- Sinai: ¶ Die Sinaifrage. E. Oberhummer, 393*
- Sinaloa, Map of the State of. H. A. Horsfall, *n.*, 935
- Sind: ¶ History of General Sir Charles Napier's Administration of Scinde. Sir W. Napier, 945*
- Singer, H., 475*, 714*
- Singleton, E., 786
- Singlewald, J. T., 628*
- Sink Holes: Les Katavothres de Grèce. N. A. Sideridis, 233*
- Sinology: ¶ Dictionnaire bibliographique des ouvrages relatifs à l'Empire Chinois. H. Cordier, 942*
- Sioux Falls, S. D., Pleistocene of — and Vicinity. B. Shimek, 628*
- Sir Sandford Glacier, Observations on the—1911. H. Palmer, 550*
- Sitka Harbor and Approaches, Chart, 236*
- Sitka Mining District. A. Knopf, 229*
- Skattum, O. J., 876*
- Skeat, W. W., 144*; — & Blagden, C. O. 947*
- Skinner, A., 470*, 928*
- Sladen, D., 308*
- Slavs: ¶ Geographical and Statistical View of the Contemporary Slav Peoples. L. Niederle, 396*; Die Slaven in Deutschland. F. Tetzner, 947*; Die Slaven. Ein Urvolk Europas. M. Zunković, *rev.*, 305
- Smeroe, Java: Studying a Volcano in Eruption, 453
- Smith, B. E., 863
- Smith, C. E. See Patton, H. B.
- Smith, G., 309*
- Smith, G. E., 876*
- Smith, H. M., 396*, 712*
- Smith, H. W., 233*
- Smith, J. P., 391*
- Smith, J. W., 521, 693, 928*
- Smith, M. S., 712*
- Smith, P. S., 788*, 928*
- Smith, S., 560*
- Smith, V. A., 947*
- Smith, W. D., & Eddingfield, F. T., 554*
- Smith, W. N., and Allen, R. C., 75*, 77*
- Smithsonian Institution: ¶ Classified List of Publications available for Distribution, 929*; Expeditions organized or participated in by the — in 1910, 1911, 929*; Proceedings of the U. S. National Museum, 1912, 789*; Report for the year ending in June 1910. C. D. Walcott, 392*; Smithsonian Physical Tables. E. E. Fowle, 635*
- Smyrna: ¶ Smyrne. Sa situation, son importance. A. Philippson, 553*
- Snethlage, Dr. E., Routenaufnahme von—vom Xingú zum Tapajoz. M. Mayr, *n.*, 717, 870*
- Snow: ¶ Photographing Red snow in Natural Colors, 293; Schneegrenze in verschiedenen Klimaten. V. Paschinger, 715*
- Sociedad Chilena de Historia & Geografía, 451
- Soemba Is., Charts, 638*
- Soils, Practical Classification of. E. O. Fippin, 555*
- Sokotra: ¶ Geologie der Inseln Sokotra, Sémha und Abd el Kûri. F. Kossmat, 312*
- Solar Eclipse: See Eclipse, Solar.
- Sölch, J., 874*
- Solent, Old Course of the, (Map), 80*
- Solger, F., and Others, 617
- Sollas, W. J., 702
- Solotaroff, W., 310*
- Somali: ¶ Beiträge zur Ethnographie und Anthropologie der Somäl, Galla, Harari. P. Paulitschke, 945*
- Somali Coast French Protectorate: ¶ Chemin de fer français d'Éthiopie, 791*; Côte française des Somalis, 932*; Protectorat de la Côte française des Somali. A. G. Rozis, 149*
- Somaliland, Italian: ¶ Cartografia coloniale. A. Mori, 471*; Il commercio della Somalia Italiana. L. Cufino, 933*; Italian —. A. Baldacci, 688; La Somalie italienne. A. Baldacci, 933*; Southern Italian —. A. Baldacci, 312* ¶ Maps of Italian Somali-

- land: Index Map of, *n.*, 156; Quadro d'Unione della Carta Dimostrativa della Samalia Italiana, *n.*, 159
- Sonolet, L., 312*
- Sonora: *¶* The Sonora Desert, Mexico. C. Lumbholtz & I. N. Dracopoli, 930* *¶* Maps of Sonora: Map of S. W. Arizona and N. W. Sonora comprising the region formerly called Papagueria, *n.*, 797; Map of Desert Region. I. N. Dracopoli, 316*; Map of the State of. H. A. Horsfall, *n.*, 935
- Soul, J., 631*
- South America: See under America.
- South Australia: See under Australia.
- South Carolina: *¶* Agriculture. Census 1910, 311*; Manufactures, Census 1910, 550*; Population, Census 1910, 229* *¶* Chart: From Isle of Palms to Hunting Island, 236*
- South Dakota: *¶* Agriculture. Census 1910, 311*; Coal near the Black Hills. R. W. Stone, 628*; Manufactures, Census 1910, 70*; Once Their Home. Our Legacy from the Dakotahs. Historical, etc. F. C. Holley, 943*; Population, Census 1910, 229* *¶* Map: Sketch Map showing southern limit of Pleistocene ice sheet and the distribution of Dakota glacial lobe. J. E. Todd, W. Upham, and D. E. Willard, 154*
- South Georgia: *¶* Geologische Beobachtungen über Süd-Georgien. F. Heim, 795*; Whaling in Southern Seas, 526 *¶* Map: Sketch Map showing whaling Grounds and the course usually taken by "Humpback" and "Right Whale" from Oct. to March. J. I. Wilson, *n.*, 159
- South Sea Islands: *¶* My Adventures Among South Sea Cannibals. D. Rannie, *rev.*, 381; Südsee Inseln. G. Friederici, 793*
- South Shetland, Whaling in, 526
- Spafford, J. E., 393*
- Spain: *¶* Ein Beitrag zur Reiseliteratur über Spanien aus einer Handschrift der Münchener Hof und Staatsbibliothek. L. Pfandl, 396*; Beobachtungen eines reisenden Geographen auf der Iberischen Halbinsel. G. Braun, 713*; Four Months Afoot in Spain. H. A. Franck, *rev.*, 61; The History of the Moorish Empire in Europe. S. P. Scott, 946*; The Magic of Spain. A. F. G. Bell, *rev.*, 382; Relations de l'Espagne et du Maroc pendant le 18me et 19me Siècles. E. Rouard de Card, 941* *¶* Map of Spain: Estadística de Obras Publicas, *n.*, 938
- Spears, J. R., 234*
- Speelman, C., 467*
- Speer, R. E., 694
- Speight, R., 234*, — L. Cockayne and R. M. Laing, 150*
- Speiser, P., 151*; See also Solger, F.
- Sperling, Otto, Notes du voyage en Espagne (1640-41) du médecin—. E. Gigas, 396*
- Spethmann, H., 160*
- Spiders. C. Warbuton, 868*
- Spitzbergen: *¶* Beiträge zur Küstenkunde von West, 875*; Dr. Bruce's — Expedition, 776; Geologischer Ausflug nach—veranstaltet vom XI. Intern. Geologenkongress, 1910. B. Weigand, 714*; Gjennem ukjendte strøk av Spitzbergens indland. En slaedetur Kingsbay - Woodbay - Ekmanbay paa den norske spitsbergenekspedition sommeren 1911. O. Holtendahl, 875*; Glacial Features in — in Relation to Irish Geology. G. A. Cole, 795*; Meteorology in, 775; Les Nappes de Lave, les Volcans et les sources thermales dans les environs de la Baie Wood au. A. Hoel and O. Holtendahl, 875*; Norwegian Expedition, 122; Political Status of, 690; Le Spitsberg dans l'histoire diplomatique. Étude de géographie historique. A. Readstad, 875*; Spitzbergens Natur og Historie. G. Holmsen, 309*; Spitzbergens Landformen und ihre Vereisung. E. v. Drygalski, 152*; — in Russian History and Literature. Sketch of Russian Sailings and Enterprises in — and a Bibliography of Literature and Archives relating to them. A. F. Shidlovski, 875* *¶* Map: Ice Conditions in the Spitsbergen Seas, 1911, *n.*, 480
- Sprague, R., 137
- Springer, J. F., 628*
- Spruce, Engelmann — in the Rocky Mountains . . . growth, volume and reproduction. E. R. Hodson and J. H. Foster, 788*
- Stadlmann, J., 794*
- Stange, A., 713*
- Stanley-Pool, Le — commercial. P. Briart, 148*
- Stavenhagen, W., 474*, 555*, 628*, 632*, 713*
- Stawropol, Die Nogaier im Gouvernement—(Ziskaukasien). K. v. Hahn, 235*
- Stearns, W. N., 631*

- Stebbing, E. P., 381
 Stedman, E. C., 68*
 Steeb, C. v., 314*
 Stefánsson, V., 340; — Details of his Arctic Work, 660; —'s Arctic plans, 927; Personal, 914
 Steffen, H., 227*, 466*
 Steffens, O., 234*
 Stein, A., 318*, 537
 Steiner, L., 715*
 Stephenson, L. W. See Veatch, O.
 Stereo, 71*
 Sterne, S., 620
 Sterrett, D. B., 928*
 Sterrett, W. D., 788*
 Steven, T. M., 795*
 Stevens, J. C., 331*, 470*
 Stevenson, E. L., 545
 Stevenson, J. J., 315*
 Stewart, W. J., 629*
 Stigand, A. G., 558*, 711*
 Stoiser, J., 709*
 Stokes, A. and M., 947*
 Stoller, J., 151*
 Stoller, J. H., 628*
 Stollowsky, O., 231*
 Stolypin, P. A. & A. W. Kriwoschein, 925*
 Stone, A. C., 314*
 Stone, R. W., 154*, 628*
 Storm King Crossing of the Hudson R. J. F. Kemp, 685
 Storms: ¶ Are There Equinoctial Storms? Development of the Marine Barometer in American Waters. J. H. Morrison, 709*; Thunderstorms over Tropical Islands, 527
 Stout, A. P., 313*
 Stout, J. L., 308*
 Stout, Sir Robert, 308*
 Strachey, Sir John, 217
 Strakosch, S., 212
 Strang, H., 308*
 Strausz, A., 947*
 Streams, Notes on Deflective Effect of Earth's Rotation as shown in. C. Cobb, 475*
 Strehlow, C., 625*
 Streitberg, T., 710*
 Strindberg, A., 866*
 Struck, A., 309*
 Struck, B., 874*
 Strümpell, K., 312*
 Stuart, Commander, 224
 Stubbs Toplice, Messungen der Erdwärme bei — in den Jahren 1909 und 1910. C. v. Steeb, 314*
 Stuhlmann, F., 794*
 Stumm, H., 947*
 Stupart, R. F., 230*
 Suarez, T., 552*
 Suck, W., 144*
 Sudan: ¶ Kulturtypen aus dem Westsudan. Auszüge aus den Ergebnissen der zweiten deutschen Forschungsexpedition, usw. L. Frobenius, 72*; Le mécanisme des orages au Soudan. H. Hubert, 393*; Traversée du massif éthiopien du Désert Somali à la plaine du Soudan, 1909-11. G. Montandon, 791*
 Anglo-Egyptian Sudan: ¶ Dix Années en Équatoria. Le Retour d'Emin Pacha et l'Expedition Stanley. G. Casati, 941*; England in the Sudan. A. Yacoub Pasha, *rev.*, 134*; Die Geschichte Nubiens und des Sudans. G. Roeder, 931*; Growth of Population. Lord Kitchener, 688; Erwachende Agrarländer. S. Strakosch, *rev.*, 212; Ägyptischer Sudan, 72*; De Khartoum à Addis-Abeba. J. Parmentier, 630*; Man and Beast in Eastern Ethiopia. From Observations... Sudan. J. Bland-Sutton, *n.*, 535; Progress in the. C. M. Watson, 931*; Railroad connecting El Obeid with the Nile south of Khartum, 119; Le Soudan Anglo-Égyptien. C. Pierre, 871*; Le Soudan Égyptien, 711*; Mise en valeur du. L. Marc-Schrader, 871*; Sudan Almanac, 1912, 709*; Uganda to Khartoum. Life and Adventure on the Upper Nile. A. R. Lloyd, 143*; La valeur économique du Soudan Anglo-Égyptien. P. Arminjon, 871*
 French Sudan: ¶ Entre le Niger et le Tchad et à l'est et au nord-est du Tchad. G. Garde, *rev.*, 780; Mission Gironcourt, 631*; Notre Beau Niger. F. Dubois, *rev.*, 212; Le sommet de la boucle du Niger. G. de Gironcourt, 631*; Touat, Sahara et Soudan. C. Sabatier, 946*
 Suess, Ed., 706
 Suez Canal: ¶ Business of the—in 1911, 122; Il Canale di Suez. R. Tritoni, 392*
 Sugar: ¶ World's—Production, 152*; Zuckerzeugung der Welt, 715*
 Suk, the: ¶ Their Language and Folklore. M. W. H. Beech, *rev.*, 299
 ¶ Maps: Map of Suk Country, *n.*, Baringo District showing Tribal division, *n.*, Kerio Suk Country, *n.*, 78
 Sulu, Geologic Reconnaissance of — and Mindanao. General and Economic Geology. W. D. Smith, 554*
 Sumatra: ¶ Acheen and the Ports on

- the North & East Coasts of. J. Anderson, 939*; Java, — and Other Islands of Dutch East India. A. Cabaton, *rev.*, 217; Nord-Sumatra. Bericht . . . in den Jahren 1904-6 ausgeführte Forschungsreise. Band II. Gajoländer. W. Volz, *rev.*, 304 ¶ Maps of Sumatra: Geologische Karte der Gajo- und Alasländer, *n.*, 318; Karte der Gajo- und Alasländer nach den Beobachtungen von Dr. Volz, *n.*, 318; Westkust Sumatra, Singkel tot Sibolga, 638*
- Sunda Islands. See also Malay Archipelago: ¶ Die Sunda-Expedition des Vereins für Geographie und Statistik zu Frankfurt am Main. Band 1. J. Elbert, *rev.*, 923
- Sundt, L., 148*
- Superior Lake Region: ¶ Geology of the. C. R. Van Hise and C. K. Leith, *rev.*, 112; Iron Ores of. B. Crowell and C. B. Murray, *n.*, 56 ¶ Maps of Lake Superior Region: Generalized topographic map of, *n.*, 77; Detailed Map of Quartzite Ridges of Teal Lake, showing faulting and unconformity of Ajibik and Mesnard Quartzites. A. E. Seaman, 75*; Geologic Map. C. R. Van Hise and C. K. Leith, *n.*, 77; Geol. Map and Sections of Marquette Iron Bearing District. C. R. Van Hise and W. S. Bailey, *n.*, 75; Map of Carp River Fault. W. N. Smith, 75*; Map of basin designed to show structure and extent of Keweenaw trough, *n.*, 77; Seven maps illustrating Pleistocene glaciation of, 77*; Relief Map showing topographic Features, *n.*, 77; Sketch map showing iron districts, shipping ports and transportation lines, 77*; Topographic provinces of — with subdivisions of peneplain, *n.*, 77
- Supf, K., 713*
- Surinam: See Guiana, Dutch.
- Surveying, Instruction in Geographical. I. N. Dracopoli, 512
- Susquehanna River Drainage Basin. H. K. Barrows and Others, 310*
- Süssmilch, C. A., 150*
- Sutton, C. H., 791*
- Swabia, Maps: ¶ Mittlere Jahres- und Monatstemperaturen der Schwäbisch-Bayerischen Hochebene. (14 Sketch Maps), *n.*, 479
- Swanton, J. R. See Dorsey, J. O.
- Swarth, H. S., 624
- Sweden: ¶ Bevölkerung Schwedens. H. Wichmann, 152*; Bulletin de l'Observatoire Météorologique de l'Upsala. F. Åkerblom, 714*; Comparative Sketch of Precambrian Geology of — and New York. J. F. Kemp, 868*; Die nördliche Steinzeitkultur in Finnland, Norwegen und Schweden. A. M. Hansen, 554*; Schwedische Landschaftstypen. G. Greim, J. Partsch and Others, 795*; Svenska Turist-Föreningens Årsskrift, 1912, 795*; Telegraph and Telephone Statistics for 1910, 474* ¶ Maps of Sweden: Hydrografisk Översiktskarta öfver Sverige, *n.*, 400; Geologische Skizze der Umgebung von Kiruna nach H. Lundbohm, 239*; Das nördliche Schweden zur Veranschaulichung der Lage der Eisenerzstätten zu den Ausfuhrhäfen, 239*
- Swick, C. H., 183
- Switzerland: ¶ Chemins de fer de montagne dans les Alpes vers le sommet de la Jungfrau. A. Dauzat, 634*; Deutsche und Romanen in der Schweiz. J. Zemmrich, 74*; Jahrb. des Schweizer Alpenclub, 1910-11, 714*; Aus kleinen Städten der Schweiz. E. V. Tobler, 74*; Klubbütten-Album des Schweizer Alpen-Club, *n.*, 145; Le parc national suisse et les ligues pour la protection de la nature. E. Fleury, 795*; Polhöhen- und Schwerebestimmungen bis zum Jahre 1910, 875*; Aus dem Schweizer Jura. A. Hettner, 875*
- Sydow, Emil von— and Development of German School Cartography, 846
- Sykes, G., 721
- Synge, J. M., 543
- Syria: ¶ Les intérêts français en Syrie. Faculté française de médecine de Beyrouth, 393*; Heth and Moab. Explorations in Syria in 1881 and 1882. C. R. Conder, 941*
- T
- Taal Volcano: ¶ Eruption of—Jan. 30, 1911. M. Masó Saderra, 233*; — and its Recent Destructive Eruption. D. C. Worcester, 554*; Visit to the S. MacClintock, 313*
- Tabora: ¶ Zum Fortbau der ostafrikanischen Zentralbahn zum Tanganjikasee. E. Zimmermann, 473*; Railroad Completed to Tabora, 452*
- Tacoma Mount. W. B. Wetmore, 210
- Tahiti, Notes on. H. W. Smith, 235*
- Tahltan Indians. G. T. Emmons, 929*
- Talbot, F. A., 147*, 167, 211, 372, 862
- Talbot, P. A., 72*, 711*

- Tamerlane the Great, History of. M. Manouchi, 944*
- Tanant, C. E., 632*
- Tancitaro Peak. E. Ordoñez, 366
- Tanfiljef, G. I., 145*
- Tanganyika: ¶Comment les eaux du Tanganika s'écoulent dans la Lukuga par le col de Mitwanzi, 471*; Öl-palme am Tanganyika-See. E. Zimmermann, 152*
- Tañon Strait, Chart of southern part, 237*
- Taoism and Confucianism. A Key to the Study of: Universism. J. J. M. de Groot, n., 926
- Tappi, L., 148*
- Tardieu, G., 867*
- Tarr, R. S., 46, 549*, 555*, 628*;—and F. M. McMurry, 229*, 866*
- Tarr, Ralph Stockman, *Obituary*, 283, 284
- Tartars: ¶Manners and Customs of the Crim Tartars. M. Holderness, 943*
- Tartary, Tibet, and Mongolia. H. T. Prinsep, 946*
- Tarumai Der—Ausbruch, 1909. H. Simotomai, 793*
- Tasmania, Maps: ¶Bays on the South-East Coast of — from Lieut. Bond's Log, [Facsimile], n., 160; Part of South-eastern Tasmania, from Hayes's Chart [Facsimile], n., 160
- Tate, G. P., 215, 616
- Tatlow, A. H., 786*
- Täuber, C., 394*
- Taunus, Die Lage der Siedelungen im. F. Knieriem, 554*
- Taurus, Über die Gebirgsbau des. F. Frech, 393*
- Taylder, T. W. P., 947*
- Taylor, E. G. R. See Unstead, J. F.
- Taylor, G., 554*
- Tea: ¶Teeproduktion und Verbrauch in den wichtigsten Ländern der Welt, 396*
- Tedeschi, A., 228*
- Teele, R. P., 715*
- Teggard, F. J., 234*
- Teheran: ¶De la Caspienne à Téhéran. J. Herbette, 150*
- Tehuantepec, L'isthme et le chemin de fer de. T. Vuccuni, 392*
- Telegraphy: ¶Die Kabel des Weltverkehrs, hauptsächlich in volkswirtschaftlicher Hinsicht. M. Roscher, *rev.*, 619; Modern Submarine Telegraphy. S. G. Brown, 315*; Wireless Telegraphy in the Belgian Congo, 369
- ¶Maps: Funkentelegraphenkarten. Weltkarte, n., 80
- Teleki, P., 459
- Tellez, S., 153*
- Temperature: ¶On the Evidence for Temperature Seiches. E. A. Birge, 235*; An Unregarded Factor in Lake —s. E. A. Birge, 235*; Low Temperatures and Vegetation. F. Shreve, 528; The "Solar Constant" and Variations of Atmospheric — at Arequipa and some other Stations. H. Arctowski, 598
- Temple, C. L., 792*, 936*
- Temple, Sir Richard, 947*
- Templeton, R. S., 712*
- Tennessee: ¶Agriculture. Farms, Live Stock, etc., Census 1910, 869*; Clay Deposits of West. W. A. Nelson, 229*; History of — 1663-1911. G. R. McGee, 309*; Introduction to the Resources of. J. B. Killebrew, 944*; Oil and Gas Resources of, 285; Manufactures, Census 1910, 550*; Population, Census 1910, 229*; Prel. Report of Coal Resources of Pikeville Special Quadr. of Eastern —. W. C. Phalen, 869*; Results of Spirit Leveling, 1910-11. R. B. Marshall, 928* ¶Map: Mt. Guyot Quad., 557*
- Teram Kangri, Collins' Triangulation of. T. G. Longstaff, 872*
- Termicourt, L. H. de, 632*
- Terrestrial Magnetism: See Magnetism, Terrestrial.
- Terrier, A., 392*, 472*, 552*, 931*, 932*
- Tessin: ¶Übertiefung des Tessingebietes. Morphologische Studie. H. Lautensach, 794*
- Testard, P., 397*
- Tetzner, F., 947*
- Texas: ¶Agriculture. Farms, Live Stock, etc., Census 1910, 869*; Five Years in. T. North, 945*; Germans in Texas. G. G. Benezet, 940*; Glimpses of. Wm. Brady, 941*; Indian Wars and Pioneers of. J. H. Brown, 941*; Population, Census 1910, 229*; Results of Spirit Leveling, 1896 to 1910. R. B. Marshall, 310*; Texas-California Arc of Primary Triangulation. W. Bowie, 927*; Triangulation along the Ninety-Eight Meridian, Seguin to Point Isabel. A. L. Baldwin, 549* ¶Chart, 236*
- Texier, C. and R. P. Pullan, 947*
- Textile Fibers, World's Production of the Leading, 396*
- Textor, L. E., 930*
- Theal, G. McCall, 696, 947*
- Thessaly, Prehistoric. Being some Account of Recent Excavations, etc. A.

- J. B. Wace and M. S. Thompson, *n.*, 626
- Thieling, W., 947*
- Thienemann, J. See Solger, F.
- Thomas, E., 232*; — & E. W. Haslehurst, 926*
- Thomas, N. W., 697
- Thomas, R. H., 313*
- Thomas-Stanford, C., 535
- Thomasset, C., 144*
- Thompson, E. H., 628*
- Thompson, H. S., 143*
- Thompson, M. S. See Wace, A. J. B.
- Thomson, J. P., 150*
- Thorbecke, F., 393*
- Thormeyer, P., 309*
- Thornton, T. H., 947*
- Thoroddsen, Th., 228*
- Thuringian Forest: ¶ Maps illustrating "Die Amphibolite des nordwestlichen Thüringen Waldes," 639*
- Thwaite, L., 693
- Thys, R., 148*, 932*
- Tiahuanaco, The Ruins at. A. F. Bandler, 630*
- Tian-Shan: ¶ Vorläufige Mitteilungen über die Ergebnisse einer Studienreise in den westlichen Tian-schan. F. Machatschek, 872*; Aus den wiss. Ergebnissen der Merzbacherschen — Expedition. Geologische Untersuchungen im Chalyktau, Temurlyktau, Dsungarischen Alatau. K. Leuchs, 553*
- Tibet: ¶ Ergebnisse der Reise der Ermordeten Dr. Brunhuber und Schmitz zum oberen Salween. M. Hammer, 793*; Journey through a portion of southeastern Tibet and the Mishmi Hills. F. M. Bailey, 632*; Results of Abor Expedition, 773; Tibet, Tartary and Mongolia. H. T. Prinsep, 946*; Voyage au Sseu-tch'ouan et aux marches orientales du Tibet. G. C. Toussaint, 872* ¶ Maps of Tibet: Tibet Oriental et Chine Occidentale, 318*; Sketch Map of the route of Capt. F. M. Bailey through S. E. — and Mishmi Hills, *n.*, 559
- Tiburón, Tenderfoot on. A Trip that Exploded the Old Myth of a Race of Cannibals in the Gulf of California. M. Williams, 147*
- Tides and Currents: ¶ Eigenschaften unter dem Einflusse der Gezeiten stehender Flussläufe und deren Regulierung im Interesse der grossen Schifffahrt. A. v. Horn, 235*; Über eine Methode zur Messung von Hochseegezeiten. E. Barkow, 235*; Über Meeresströmungen zwischen Kap Horn und der la Plata-Mündung. J. Klahn, 315*; Methods of Investigation of Tides and Currents. A Review of the general methods adopted in new field investigation by Tidal Survey of Canada. W. B. Dawson, 311*; Progress of Tide in Deep Inlets and Ordinary Estuaries. W. B. Dawson, 555*; Report on Surveys of Tides and Currents. W. B. Dawson, 396*; Tide Tables for the Eastern Coast of Canada for 1912, 629*; Tide Tables for the Pacific Coast of Canada for 1912, 550*; for 1913, 930*; Tides. J. F. Ruthven, 153*
- Tierra del Fuego, The Present State of our Knowledge concerning the Three Linguistic Stocks of the Region of. A. F. Chamberlain, 70*
- Tietze, O., 151*
- Tikar. Bericht von der Forschungsreise der Deutschen Kolonialgesellschaft, usw. J. Thorbecke, 711*
- Tilby, A. W., 532, 554*, 700
- Tilho, J. A New — Mission to Lake Chad, 852
- Timiskaming Lake, Geology of an Area Adjoining the East Side of. M. E. Wilson, 230*
- Tin-Ore: ¶ Entstehung und geographische Verbreitung der nutzbaren Zinnerzlagertstätten. M. Henglein, 876*; Output of Certain Minerals and Metals in the World, 234*
- Tipper, G. H., 150*
- Tirol: ¶ Das Bauernhaus in — und Vorarlberg. J. W. Deininger, 942*; Grundtliche und warhafte Beschreibung der uralten Alpischen Rhetie. Tschudi, [1560], 947*; Tyrol and the Tyrolese. W. A. Baillie Grohmann, 940*
- Tissot, C., 947*
- Tissot, J. J., 947*
- Titicaca Lake: ¶ El Clima del Altiplano y la Extension del Lago Titicaca con relación á Tihuanacu en épocas prehistóricas. A. Posnansky, 142*; El Lago Titicaca. L. Sundt, 148*
- Tittmann, O. H., 257, 715*
- Tobler, E. V., 74*
- Todd, J. E., Upham, W., & Willard, D. E., 154*
- Todd, M. L., 921
- Togo: ¶ Délimitation du Dahomey et du —, 931*; Entwicklung des Exports in Togo und Kamerun. E. Kremer, 149*; Handel des Schutzgebietes, 871*;

- Meteorologische Beobachtungen aus. P. Heidke, 711*; Nord-Togo und seine westliche Nachbarschaft. R. Fisch, *n.*, 308; Oberflächengestaltung und geologische Aufbau. S. Passarge, 872*; Wirtschaftliches über Togo. J. Booth, 872*
- Tokyo, Home Life in. (Jukichi Inouye). R. De Vos, 232*
- Tongass Narrows, Chart, 236*
- Toplice, Stubicke — Messungen der Erdwärme bei — in den Jahren 1909 und 1910. C. v. Steeb, 314*
- Topography: *¶*Éléments de Topographie. R. Altermann, 709*; Sur le Terrain. Guide pratique de topographie à l'usage des élèves-ingénieurs, etc. E. Liger, 145*; Topografia. I. G. Pigozzi, *n.*, 709; Topology, —, and Topometry. F. E. Matthes, 334
- Topolje Falls, Sketch Map of Neighborhood of, Plan of — Falls, *n.*, 80
- Topology, Topography and Topometry. F. E. Matthes, 334
- Torcy, Général de, 532*
- Torday, E., 553*
- Torres Campos, R., 947*
- Töss Valley: *¶*Wirtschafts- und Siedlungs-geographie des Tösstales. H. Bernhard, 554*
- Totemism: *¶*Geographische Verbreitung des Totemismus. H. Fehlinger, 396*; Die Totemistischen Kulte des Loritja-Stämme. C. Strehlow, 625
- Totten, R. J., 552*
- Toulon, Les grands travaux du port de, 794*
- Toussaint, G. C., 872*
- Tower, W. S., Personal, 292
- Townsend, C. H., 152*
- Townshend, C. H., 948*
- Tozer, H. F., 947*
- Trabert, W., 315*
- Trall, H. D., 787*
- Transactions of the American Geographical Society, 44, 116, 203, 285, 364, 914
- Transbaikalia: *¶*Transbaikalien. A. Schoönebeck, 313*
- Transcaucasia: *¶*From Constantinople to the Home of Omar Khayyam. Travels in Transcaucasia and Northern Persia. A. V. W. Jackson, *rev.*, 698
- ¶*Maps of Transcaucasia: Skizze des Gefechtsfeldes bei Kars, (nach Greene), 400*; Skizze der Ruinenstadt Ani, (nach Lynch), 400*
- Transvaal, Province: *¶*Distribution of Temperature, 472*; Bei den Buren. R. Pöch, 870*; Director's Report for 1910, 472*; —, die Südafrikanische Republik. A. Seidel, 947* *¶*Map: Geologic Map of Transvaal: Portions of Marico and Rustenburg Districts, *n.*, 717
- Transylvania: *¶*Bericht über die physikalische und chemische Untersuchung des Erwärmungsprozesses der Siebenbürger Salzseen. Neuere Daten zur Kenntnis der Warmen Salzseen. M. Rózsa, 474*
- Trave: *¶*Entstehung des Travetales. C. Gagel, 151*
- Trees, Shade — in Towns and Cities. W. Solotaroff, *n.*, 310
- Tremearne, A. J. N., 858
- Trevelyan, G. M., 947*
- Triest, Gulf of: *¶*Hydrographische Untersuchungen im Golfe von. A. Merz, 713*, 874*
- Trietsch, D., 390*
- Trinidad, Map of the Island of. Capt. Mallet, revised, etc., *n.*, 399
- Tripoli: *¶*Bacini minerali della Tripolitania. I giacimenti di fosfato e di zolfo. S. Gianno, 149*; Cenni geologici sulla Libia italiana. P. V. de Regny, 792*; Geographical Progress on the Libyan Coast, 522; La guerre Italo-Turque et ses conséquences, 393*; Importanza delle vie carovaniere in Tripolitania ed in Cirenaica. G. Pera, 632*; Les indigènes de la Tripolitaine. A. Loir, 933*; Libya Italica. Terreni ed Acque, Vita e Colture della Nuova Colonia. P. Vinassa de Régnv, *n.*, 925; Mapping Tripolitania. Col. E. Caputo, 451; Militärgeographie des tripolitaniischen Hinterlandes. D. Hübner, 393*; Narrative of an Expedition from — to the western frontier of Egypt. P. Della Cella, 941*; L'opera della civiltà italiana nella Libia, 933*; Per lo sviluppo agricolo della Tripolitania e della Cirenaica. F. Cortesi, 792*; — the Gateway to the Sahara. Lecture by C. W. Furlong, 118; — and Young Italy. C. Lapworth and H. Zimmern, *rev.*, 921; Tripoli. A. Vischer, 312*; — the Mysterious. M. L. Todd, *rev.*, 921; La Tripolitaine. I. Assada, 632*; L. H. de Termicourt, 632*; Tripolitania e Cirenaica. P. Vigoni, 632*; Tripolitania e Cirenaica dal Mediterraneo al Sahara. A. Ghisleri, *rev.*, 534; — und der Krieg 1911. W. Stavenhagen, 632*; Les Turcs en Afrique Centrale. Frontière franco-tripolitaine. M. Cortier, 231*; Sul valore

- economico della Tripolitania. G. Jaja, 632* **Q** Maps of Tripoli: Carta della Tripolitania e Cirenaica. A. Dardano, *n.*, 238; Croquis de la Frontière Tuniso-Tripolitaine, 318*; Italienisch-türkische Kriegsschauplatz in Tripolis, *n.*, 238; Nuove Provincie Italiane Tripolitania e Cirenaica. A. Dardano, *n.*, 717; Philip's Map of, *n.*, 640; Plan von Tripolis und seiner Oases mit den Befestigungen, Kasernen und Brunnen, *n.*, 238; Sketch Map of Tripoli and its Dependencies, *n.*, 79; Plan von Tripolis und seiner Oases mit den Befestigungen, Kasernen und Brunnen, *n.*, 238; Sketch Map of Tripoli and its Dependencies, *n.*, 79; Tripolis und das östliche Mittelmeer. Schauplatz des italienisch-türkischen Konfliktes, *n.*, 320
- Tritoni, R., 392*
- Trivett, J. B., 709*
- Trivier, E., 947*
- Troad: **Q** Notes on the Troad. W. Leaf, 793* **Q** Map: The Troad After Kiepert & Philippson with corrections by W. Leaf, *n.*, 937
- Tropical Islands, Thunderstorms over. K. Wegener, 527
- Tropics: **Q** Landbauzonen der Tropen in ihrer Abhängigkeit vom Klima. W. R. Eckhardt, 397*
- True, A. C. and V. A. Clark, 928*
- Tsavo, Man-Eaters of—and other East African Adventures. J. H. Patterson, 866*
- Tschamler, I., 313*
- Tschudi, 947*
- Tsingtau: **Q** Von Tsingtau nach Nanking. J. Schulze, 872*; Witterung und phänologischen Erscheinungen zu — Dez. 1909 bis zum Nov. 1910. 150*
- Tuamotu: **Q** Ein Beitrag zur Kenntnis der Tuamotu-Inseln. G. Friederici, *rev.*, 784
- Tuaregs: **Q** Ma Mission de 1893-4 chez les Touareg Azdjev. F. Foureau, 942*; Notes sur les Touareg Ajjer. Aperçu sur l'oasis de Djanet et son utilisation. Lieut. Ardaillon, 472*
- Tuat: **Q** Touat, Sahara et Soudan. C. Sabatier, 946*
- Tuberculosis: **Q** Tuberculose Bovine. R. Bidard, 234*
- Tulameen Dist., B. C., A new Diamond Locality in. C. Camsell, 147*
- Tumbes, Provincia litoral de. T. Suarez, 552*
- Tunis: **Q** Campagnes d'Afrique. Algérie-Tunisie-Maroc. V. Piquet, 946*; Colonisation française . . Algérie-Tunisie-Maroc. V. Piquet, *rev.*, 533; Exploration scientifique, 1885-1909, 948*; Géographie Comparée de la Province Romaine d'Afrique (Explor. scient. de la Tunisie). C. Tissot, 947*; Das grösste Phosphatbergwerk der Welt, 792*; Les ports de l'Afrique française du Nord. E. Gallois, 871*; Tunis, Kairouan und Carthage. G. Petrie, 946*; La Tunisie à vol d'oiseau. E. Lucas, 393* **Q** Maps of Tunis: Croquis de la frontière Tuniso-Tripolitaine, 318*; Tunisie, Feuille Souk el Kremis, *n.*, 477
- Turin: **Q** Guide de la Ville de, 146*; Guida illustrata della città di Torino, 146*; Illustrated Guide of, *n.*, 228
- Turkestan: **Q** —. The Heart of Asia. W. E. Curtis, 350*
- Chinese Turkestan. Map: **Q** Turkestan Chinois et Kan-Sou. Itinéraires du Dr. Stein, etc., *n.*, 318
- Russian Turkestan: **Q** Irrigation in Turkestan. A. P. Davis, 393*; — Foga. H. A. Dimo, 610; Languages spoken in the Western Pamir. A. Hjuler, 793* **Q** Map: Partie Ouest du Turkestan Russe. Itinéraire de D. Carruthers, 318*
- Turkey. See also Ottoman Empire and Asiatic Turkey: **Q** History and Geology of Ancient Gold-Fields in. L. Dominian, 714*; Neuer Geist in der türkischen Volkswirtschaft. G. Herit, 233*; Saline della Turchia, 74*; Das Türkenvolk. H. Vambéry, 948*; Turkey and Its People. Sir Edwin Pears, *rev.*, 461 **Q** Map: Schauplatz eines zukünftigen türkisch-bulgarischen Konfliktes, *n.*, 239
- Turner, E. R., 547
- Turner, H. H., 235*
- Turner, N. L., 629*
- Turner, S., 140
- Turquetil, R. P. A., 930*
- Turquoise Copper-Mining District, Ari. F. L. Ransome, 869*
- Turtle Mt., Frank, Report of the Commission to investigate, 550*
- Tuscany, Roman: **Q** Tuscia Romana. E. Barbarich, 634*
- Twenhofel, W. H., 230*
- Twitchell, R. E., 295
- Tybee Roads, Ga., Chart, 236*
- Tyrol: See Tirol.
- Tyrrell, J. B., Personal, 530

U

- Ubaldi, P., 57
- Ückermünde: **Q** Ueckermünder Heide. H. Seelheim, 233*
- Udden, J. A., 628*
- Uganda: **Q** Ascent of Mt. Elgon, 452;

- The Baganda. Account of Their Native Customs and Beliefs. J. Roscoe, *rev.*, 456; Distribution of Game in. F. A. Knowles, 71*; Elephant Hunting. C. E. Akeley, 392*; Man and Beast in Eastern Ethiopia. Observations... Uganda, etc. J. Bland-Sutton, *n.*, 535; Régions voisines de la frontière orientale du Congo Belge du Tanganyika au Lac Albert. M. J. Maury, 870*; Trade of — in 1910-11, 711*; Uganda to Khartoum etc. A. R. Lloyd, *n.*, 143 ¶ Maps of Uganda: Ethnographische Übersichtskarte des Nil-Kongo-Zwischengebietes. J. Czekanowski, *n.*, 238
- Uhlig, C., 233*
- Uitoto: ¶ Uitoto-Indianer. Weitere Beiträge zu ihrer Sprache. T. Koch-Grünberg, 552*
- Ule, W., 234*
- Ulrich, E. O., 235*
- Umpleby, J. B., 470*; —, F. C. Calkins & E. L. Jones, 928*
- Unga Island, Maps: ¶ Reconnaissance Geologic Map of, Reconnaissance Topographic Map, Sketch Maps of shore Features near south and north entrance to Baralof Harbor, 154*
- Ungar, K., 234*
- Union of South Africa: See under Afrika.
- United Kingdom. See also England, Great Britain, Ireland and Scotland: ¶ British Isles. Geography Notes. J. C. Chute, 227*; British Isles. How People Live. The Home of Man. W. C. Brown and P. H. Johnson, 309*; The Building of British Isles. History of Construction and Geological Evolution. A. J. Jukes-Browne, *rev.*, 218; Cambridge County Geographies, *n.*, 390, 626*, 709*; Commercial Geography of the British Isles. A. J. Herbertson, 229*; Comparative Study of Imports and Exports of Great Britain, Germany and the U. S. in the Last Thirty Years. J. J. Macfarlane, 628*; Érosion sur les côtes anglaises. I. Assada, 875*; Exercises in Practical Geography on the British Isles. C. R. Dudley, *rev.*, 64; Navigation intérieure en Grande-Bretagne. A. Demangeon, 634*; Notes on British and Irish Itineraries and Road-Books. H. G. Fordham, 875*; Report of Progress of Ordnance Survey to March 31, 1911, 234*—1912, 875*; Mapping by the, 854; Supply of Mutton and Wool to—from Outside Sources. J. Cooke, 152* ¶ Historical: Anglo-Dutch Rivalry during the First Half of Seventeenth Century. G. Edmundson, *n.*, 144; British Museum: Its History and Treasures. H. C. Shelley, *n.*, 144; On the Classification of the British Stone Age Industries, and Some New and Little Known well-marked Horizons and Cultures. W. J. L. Abbott, 714*; Debates of the House of Commons in 1774 (From Notes of Sir H. Cavendish). J. Wright, 948*; Essai politique sur le revenu public des peuples de l'antiquité... et spécialement de la France et de l'Angleterre. Ch. Ganith, 942*; History of the British Post Office. J. C. Hemmeon, *n.*, 548; History of England in the Eighteenth Century. W. E. H. Lecky, 944*; History of the War with America, France, Spain and Holland. (1785-6). J. Andrews, 940*; An Itinerary of the Sixteenth Century. La Guide des chemins d'Angleterre. H. G. Fordham, 716*; Political History of England, 944* ¶ Meteorology: British Rainfall, 1910. H. R. Mill, *rev.*, 138; Meteorology of the Ben Nevis Obs. J. Hann, 875*; Summaries of Results of Geophysical and Meteorological Observations in 1910, at Kew Obs., Falmouth, etc., 555*; Variations on the English Climate during thirty years, 1881-1910. W. Marriott, 234* ¶ Maps of the United Kingdom: Bacon's Map of Ireland with Adjacent Coasts of Great Britain, *n.*, 720; British Isles: Geographical Divisions, *n.*, 319; — River Systems, *n.*, 319; Natural Regions of Great Britain, 319*; Outlines for Climate Map, *n.*, 720; Pratt's Road Atlas of England and Wales, *n.*, 800; School Atlas of English History. S. R. Gardiner, *n.*, 800, 942* ¶ Colonies: Historical Geography of the British Colonies. J. D. Rogers, *rev.*, 55; Des Zahlenmässige Anwachsen des englischen Kolonialreiches. E. Schultze, 395*
- United States: ¶ Development and State of Progress of the U. S. Portion of the International Map of the World. W. L. G. Joerg, 838; La genèse des Grandes Plaines aux États-Unis. I. Assada, 927*; Great Basin Drainage. W. B. Clapp and F. F. Henshaw, 549*; L'Hydrologie souterraine aux États-Unis. E. A. Martel, 311*; Küstenverteidigung der Vereinigten Staaten. W. Stavenhagen, 628*; List

of Excursions, Parties, Mountain Climbs, 1882-1911, 550*; The New Madrid Earthquake. M. L. Fuller, 203, 710*; Our Country and Its People. Introductory Geographic Reader for the Fourth School Year. W. S. Monroe and A. Buckbee, 229*; Our National Parks. L. F. Schmeckebier, 928*; Recent Gravity Work in the W. Bowie, 69*; River and Harbor Improvements, 789*; Second Visit to the Sir Charles Lyell, 944*; Statistical Abstract of the U. S., 1910, 70*, 1911, 550*; Surface Water Supply 1909. Atlantic Coast. H. K. Barrows, C. C. Covert and R. H. Bolster, 391*, N. Pacific Coast. J. C. Stevens & Others, 470*; Topographic Maps of Counties, 607; Three Wonderlands of the American West. T. D. Murphy, *rev.*, 857 ¶ Agriculture: Agriculture. By States. Farms and Farm Property, Live Stock, etc., Census 1910, 869*; Experiment Stations. A. C. True & V. A. Clark, 928*; Agricultural Instruction in the Public High Schools. C. H. Robison, *n.*, 64; Corn Crops in the U. S. H. Arctowski, 745; Cotton Production 1911, 929; Supply and Distribution of Cotton in 1911, 230*; Farming Industries. J. J. Macfarlane, 788*; Farming and Stock Raising among the Indians. J. R. Eddy, 549*; Field Operations of the Bur. of Soils 1909. M. Whitney, 470*; Important American Soils. J. A. Bonsteel, 788*; Natural Vegetation as an Indicator of Possibilities of Land for Crop Production in Great Plains Area. H. L. Schantz, *rev.*, 128; Wheat-Growing in Canada, the U. S. and the Argentine. W. P. Rutter, *rev.*, 372; Yearbook of the U. S. Dept. of Agric. 1911, 929* ¶ Conservation and Reclamation Service: The Great American Desert. C. J. Blanchard, 549*; Irrigation. Farms and Acreage Irrigated, Cost of Construction, etc. Census of 1910, 929*; Making the Wilderness Blossom. C. J. Blanchard, 549*; Magnitude of Irrigation Interests. R. P. Teele, 715*; Official Proc. of Eight enth Nat. Irrigation Congress, 1910, 229*; 1911, 550*; National Aspect of Swamp Drainage. M. O. Leighton, 392*; Progress in Reclamation of Arid Lands in West. F. H. Newell, 470* ¶ Economic: Fisheries. An Example of the Attitude toward Resources. R. M. Keir, 582; Naval

Stores. Increasing Demand and Diminishing Supply Advance Prices — Scientific Gathering now Replacing Crude and Wasteful Methods. D. Bartlett, 795*; Our Mid-Pacific Bird Reservation. H. W. Henshaw, 868*; Three Important Wild Duck Foods. W. L. McAtee, 229*; Winds of the U. S. and their Economic Uses. P. C. Day, 856 ¶ Economic Geology: Phosphates. R. W. Richards, G. R. Mansfield, and Others, 229*; Search for Potash. H. S. Gale, 469*; Stone. E. F. Burchard, 629*; Structural Materials. C. T. Butts, N. Dale and Others, 310*; Survey Publications on Phosphates and other Mineral Fertilizers, 392* ¶ Forests and Forestry: Effects of Forests upon Stream Flow, 607; Forests of the U. S.: Their Use. O. W. Price, R. S. Kellogg and W. T. Cox, 928*; — Planting in the Northeastern and Lake States, 869*; Forest physiography . . . and Principles of Soils in Relation to Forestry. I. Bowman, *rev.*, 127; Forest Preservation. H. S. Graves, 310*; Practical Forestry in the Pacific Northwest. E. T. Allen, 142*; Present Situation in. H. S. Graves, 229*; Progress of. R. P. Bass, 229*; Problem of. H. S. Graves, 310*; Properties and Uses of Douglas Fir. M. Cline and J. B. Knapp, 788*; Protection of Forests from Fire. H. S. Graves, 788*; Public Aspect of Forestry. H. S. Graves, 74*; Reforestation of the National Forests. W. T. Cox, 927*; Scrub Pine. W. D. Sterrett, 788* Wood and Forest. W. Noyes, *n.*, 547 ¶ Government and Other Reports: Annual Report on Statistics of Railways June 1910, 629*; Lobster Fishery. Special Report Legislature of Mass., Comm. of Fisheries and Game, 1911, 470*; Report on Progress and Condition of the U. S. National Museum for 1911, 550*; Report of the Weather Bureau, 1910-11, 629*; Second Annual Report on Statistics of Express Companies, 1910, 550*; Thirty-Second Annual Report U. S. Geol. Survey, for 1911, 230*; Twenty-Seventh Annual Report Bur. Amer. Ethnology, 1905-6, 230*; Report of the Bur. of Amer. Ethnology. F. W. Hodge, 392*; For Reports on Philippine Is. and Porto Rico. See Philippine Is. & Porto Rico ¶ Historical: Account Book of a Country Store Keeper in the 18th Century at Poughkeepsie. Re-

cords in Dutch and English, 549*; Colonial Opposition to Imperial Authority during the French and Indian War. E. I. MacCormac, 396*. Conquest of the Coeur d'Alenes, Spokanes and Palouses. Expeditions . . . against the "Northern Indians" in 1858. B. F. Manring, 777; Diary of a Journey from the Netherlands to Pella, Iowa in 1849, 929*; History of the United States for Schools. A. C. McLaughlin, and C. H. Van Tyne, 226*; Pathbreakers from River to Ocean. Story of the Great West, etc. G. R. Hebard, *n.*, 122; Philipse Manor Hall at Yonkers. E. H. Hall, *n.*, 624; Revolutionary War and the Military Policy of the. F. V. Greene, *rev.*, 455 ¶Indians: See Indians, American. ¶Industries and Commerce: Comparative Study of Imports and Exports of Great Britain, Germany and the United States in the Last Thirty Years. J. J. Macfarlane, 628*; Few Facts as to the Woolen Industry. Manufacture of Worsteds and Woolens, 929*; Foreign Trade by Ports, 550*; Manufactures in Export Trade. J. J. Macfarlane, 795*; Manufactures. Extent and Growth of Industry as Revealed by Census of 1910. J. J. Macfarlane, 392*; Statistics of —, Census for 1910, 550*, 869*, 929*; Manufactures. Leading Industries in 1910. J. J. Macfarlane, 928*; Ten-Year Comparison of the U. S. Exports to and Imports from the Principal Countries. J. J. Macfarlane, 628*; Use of Commercial Woods in the U. S.: Pines. W. L. Hall and H. Maxwell, 310;—Cedars, Cypresses and Sequoias. W. L. Hall and H. Maxwell, 788* ¶Meteorology: Annual Rainfall and Temperature of the. G. A. Lindsay, 928*; Daily Changes in Temperature up to 4,000 meters. A. J. Henry, 927*; Free Air Data. Sounding Balloon Ascensions at Indianapolis, Omaha, and Huron. W. R. Blair, 627*; Free Air Data Mt. Weather for Jan., Feb. and March, 1912. W. R. Blair, 927* ¶Minerals and Metals: Aluminum, 449; Cement. E. F. Burchard, 629*; Coal. E. W. Parker, 629*; Our Coal Production in 1911, 685; Coke. E. W. Parker, 629*; Clay-Working Industries. J. Middleton, 629*; Copper. S. Paige, W. H. Emmons, and F. B. Laney, 229*; Copper . . . Appalachian

States. W. H. Weed, 628*; Erzlagerstätten der Vereinigten Staaten . . . Alaska, Cuba, Portorico und den Philippinen, *rev.*, C. L. Henning, 613; Gold and Silver, 1910. J. S. Diller, E. S. Larsen and Others, 391*; Mineral Resources — 1910, 629*; Natural Gas. B. Hill, 629*; Mica in Idaho, New Mexico and Colorado. D. B. Sterrett, 928*; Resources minérales des États-Unis. Le Cuivre, le charbon et le fer. F. Guillotel, 469*; Peat. C. A. Davis, 629*; Our Iron and Steel Industry in 1910, 45; Petroleum. D. T. Day, 629*; Our largest Output of Petroleum, 45; Petroleum and Natural Gas. M. J. Munn, C. H. Wegemann and Others, 392*; A Year in the Petroleum Industry, 929* ¶Population and Race Problems: Abstract of the Twelfth Census of the—1900, 549*; Century of Population Growth from first Census of the U. S. to the Twelfth, 1790-1900, 549*; Guida degli Stati Uniti per l'Immigrante italiano. J. F. Carr, *n.*, 307; Influence of Nations of Europe, especially of the Netherlands, on the Character, Institutions and Development of American Nation. T. de Vries, 928*; Negro Year Book and Annual Encyclopedia of the Negro, 1912, 787*; Der Neger in den Vereinigten Staaten von Nordamerika. M. Schanz, 466*; Population per Square Mile, by States, 470*; Population. Composition and Characteristics of the, Census 1910, 929*; Total Population and Area, by States and Terr., Census 1910, 229*; Population of Cities, Census 1910, 229*, 518; Prospective Population. W. J. McGee, 146*; Problem of Unity or Plurality and the Probable Place of Origin of the American Aborigines. J. W. Fewkes and A. Hrdlička, 710*; Scot in America and the Ulster Scot. W. Reid, 866* ¶Smithsonian Institution: Classified List of Publications available for Distribution, 929*; Expeditions organized or participated in by the—in 1910 and 1911, 929*; Proceedings of the U. S. National Museum, 1912, 789* ¶Surveys: Survey of Northern and Northwestern Lakes 230*, 869*; Annual Report for 1911, 789*; The United States-Canada Survey, 607; U. S. Coast and Geod. Survey: Distribution of Magnetic Declination for Jan. 1, 1910, with Isogonic Chart and Secular Change Tables. R.

- L. Faris, 469*; Magnetic Declination in the, 448; Present Activities of the . . . Survey. O. H. Tittmann, 257; Results of Magnetic Observations made by, between July 1, 1910 and June 30, 1911. R. L. Faris, 391*; Results of Magnetic Observations . . . Time of Solar Eclipse of April 28, 1911. O. H. Tittmann, 715*; Triangulation along the Ninety-Eight Meridian, Nebraska to Canada and Connection with Great Lakes. W. Bowie, 391*; U. S. Geol. Survey: Classification of Public Domain by the, 119; Gaging Stations . . . 1888-1910 and Survey Publications relating to Water Resources. Compiled by B. D. Wood, 629*; Topographic Survey of the U. S., 1911, 119; Topographic Maps of Counties, 607 ¶Transportation: American Transportation Question. S. O. Dunn, *rev.*, 703; Bull. of Revenues and Expenses and Steam Roads . . . 1910 and 1911, 549*; Good Roads Party, *n.*, 306; Highways of Progress. J. J. Hill, 296; Mileage and Cost of Public Roads in the — 1909. J. E. Pennybacker, Jr. and M. O. Eldridge, 928*; Railway Library, 1810, *n.*, 867; Railroad Traffic and Rates. E. R. Johnson and G. G. Huebner, *rev.*, 619; Railways. S. Sterne, *rev.*, 620; Stage-Coach and Tavern Days. A. M. Earle, *n.*, 708; The Western Gate . . . new American mercantile marine. P. H. W. Ross, 142*; Water Transportation between Chicago and the Mississippi, 685 ¶U. S. Geographic Board, Decisions, 311*, 550*, 789*, 929* ¶Maps of the United States: Amérique. Éta d'avancement des travaux au 31 Déc., 1909, *n.*, 237; Bathy-Orographical Map of the. W. and A. K. Johnston, *n.*, 240; Gray's New Railway System Map of the U. S., Canada and Mexico, *n.*, 155; Three Maps of the U. S. Compiled by H. Gannet, *n.*, 399; ¶Bureau of American Ethnology Maps, *n.*, 77 ¶Bureau of the Census Maps, 155 ¶General Land Office Maps: Four State Maps, *n.*, 797 ¶U. S. Lake Survey Maps, *n.*, 77 ¶U. S. Geological Survey Maps, 74, 153, 397, 556, 636, 796, 877, 933; Geologic Map of North America Compiled by U. S. Geol. Surv. with Cooperation of Geol. Surv. of Canada and Inst. Geol. de Mexico, *n.*, 155; Intern. Map of the World: North America. North K 19: Boston, 399*, 934*, *n.*, 838; Map of North America, *n.*, 796; Map of Southern Part of Appalachian Province showing its physiographic Divisions and its relation to the Coastal Plain, 154* ¶U. S. Coast and Geodetic Survey Charts: Atlantic Coast, 235, 635, 796; Gulf, Coast, 236, 796; Hawaiian Islands, 237; Pacific Coast, 236, 636, 796; Philippine Islands, 237, 636; Porto Rico, 236
- Universism: A Key to the Study of Taoism and Confucianism. J. J. M. de Groot, *n.*, 926
- Unstead, J. F., 627*; — & Taylor, E. G. R., 309*
- Upham, W. and Others, 947*; See also Todd, J. D.
- Upsala, Bulletin de l'Observatoire Météorologique de l'—. F. Åkerblom, 714*
- Urubamba, The Cañon of the. I. Bowman, 881
- Uruguay: ¶All-Rail Route between Montevideo and Rio de Janeiro, 471*; Anuario Estadístico . . . 1907-08 con varios datos de 1909 y 1910, Vol. 2, Part 1, 552*; Part 2, 931*; Diccionario Geográfico del. O. Araújo, *n.*, 925; El Uruguay á través de un Siglo. C. M. Maeso, *rev.*, 375; Uruguay in 1910, 71*
- Usteri, A., 307*
- Ustica, La Sismicità all'Isola di—e il periodo Marzo-Aprile 1906. G. Martinelli, 626*
- Usu: ¶Über den — und Hokkaido und über einige andere Vulkane mit Quellsuppenbildung. I. Friedlaender, 793* ¶Map: Kartenskizze des Usu, *n.*, 937
- Utah: ¶Agriculture. Census 1910, 311*; Geology and Ore Deposits of the Park City Dist. J. M. Boutwell, 927*; Geology of San Juan Oil Field. E. G. Woodruff, 470*; Grazing and Floods: Conditions in the Manti Nat. Forest. R. V. R. Reynolds, 928*; Ground Water in Juab, Millard, and Iron Counties. O. E. Meinzer, 69*; Irrigation. Farms and Acreage irrigated, etc., Census 1910, 929*; Manufactures, Census 1910, 869*; Lead and Zinc. Notes . . . and Copper Deposits in the Bear River Range. R. W. Richards, 69*; Petroleum and Natural Gas in. E. G. Woodruff, 629*; Population, Census 1910, 147*; Results of Spirit Leveling, 1897 to 1910. R. B. Marshall, 147*; San Juan Oil Field. R. E. Gregory, 69* ¶Maps of Utah: Geol. Map of Park City Dis-

trict, 796*; Geol. Map of Central Portion of, 796*; Top. Map of Park City Dist. with index showing position of mines, 796*; Geol. Map and Sections of San Juan Oil field, *n.*, 558; Map of San Juan Oil Field, *n.*, 558; Montpelier Quad., 75*
 Uz: ¶The Land of Uz. A. Mansûr (G. W. Bury), *rev.*, 380 ¶Map, 399*

V

- Valdez, Alaska, Gold Deposits near. A. H. Brooks, 927*
 Valleys: ¶Entstehung des Travetales. Beitrag zur Frage der Talbildung und der postglazialen Landeskunden. C. Gagel, 151*; Entstehung der Trogtäler zur Einzeit. E. v. Drygalski, 875*
 Valparaiso, New Port of, 686
 Vambéry, H., 948*
 Van Cleef, T., 401, 493
 Vancouver Is.: ¶Treasure Island. Agriculture, Timber, etc., *n.*, 56; Southern Vancouver Island. C. H. Clapp, 929* ¶Map of Vancouver and adjacent islands, *n.*, 797
 Van Hise, C. R. and W. S. Bayley, 75*; — J. M. Clements, and Others, 76*; — and R. D. Irving, 77*; — C. K. Leith, 77*, 112
 Van Kampen, P. N., 72*
 Van Tyne, C. H. See McLaughlin, A. C.
 Vassal, G. M., 859
 Vassar College, Environment of. G. B. Shattuck, 628*; Some Geological Rambles near. B. Shattuck, *n.*, 466
 Vatican Galleries: ¶Galleria Geografica des Vatikans. E. Schmidt, 397*
 Vaughan, T. W., 235*
 Vauthier, R., 871*
 Vaux, G., Jr., 789*
 Veatch, A. C., 473*
 Veatch, O. and L. W. Stephenson, 628*
 Vegetation: See Plants.
 Vélain, C., 315*
 Vendée: ¶Statistique ou Description Générale de la Vendée. J. A. Cavo-
 leau, 941*
 Venezuela: ¶Anuario Estadístico de— 1909, 791*; Commerce of, 1911, 931*; Coordenadas geográficas determinadas por el mapa físico y político de Venezuela, 630*; Education in. E. E. Brandon, 791*; Effects of Diminished Rainfall, 368; General Descriptive Data 1911, 931*; Ferrocarril de Santa Bárbara á el Vigía. R. C. Quiñones, 392*; Ferrocarril y Muelle de Guanta
 y Minas de Carbon de Naricual. J. G. Aldrey, 392*; Informe de la Comisión sobre el camino de Cumanacoa á Maturín y sobre las vías de Comunicación del Estado Monagas, 312*; My Journey from Kalacoon to the Orinoco. M. McTurk, 471*; Rubber along the Upper Orinoco, 367; Trabajos del Cuerpo de Ingenieros, *rev.*, 456; Trade for 1907, 930*; Venezuela in 1910, 71*
 Vérendrye, M. de la. (Les pionniers de l'ouest canadien). G. Dugas, 629*
 Verhoeff, M., 779
 Verloop, M. C., 62
 Vermeule, C. C., 789*
 Vermont: ¶Agriculture. Census 1910, 311*; Manufactures, Census 1910, 550*; Population, Census 1910, 929*
 Verneau, R., 948*
 Veröffentl. des Inst. für Meereskunde und des Geogr. Inst. an der Univ. zu Berlin, 610, 918
 Versfeld, W., 72*
 Veth, P. J., 948*
 Viala, L. F., 233*
 Vicars, E. R. E., 876*
 Victoria: ¶Aborigines of Lake Boga. A. C. Stone, 314*; Allgemeine Verhältnisse der Häfen und an den Küsten des Staates, 473*; On the Climate of Yass-Canberra Dist. H. A. Hunt, 473*; Contrib. to Physiography of the Yarra R. and Dandenong Creek Basins. J. T. Jutson, 313*; Population, Census 1911, 530; Year Book, 1909-10. A. M. Laughton, *n.*, 143
 ¶Maps of Victoria: Average Rainfall Map and Isohyets of, 798*; Enlarged Map of Warrandyte Goldfield, 639*; Geol. Map of Yarra and Upper Goulburn Basins, *n.*, 638; Outline of the Portion of Yarra R., *n.*, 638; Plan and section of Yering Gorge, *n.*, 638; Sketch map of the parishes of Nillumbik, Sutton, Warrandyte, *n.*, etc., 639; Sketch map of Yarra R. and Dandenong Creek Basins, *n.*, 638; Positions of Butter Factories, *n.*, 158; Victoria classified according to its productiveness, *n.*, 158
 Victoria, B. C.: ¶The Naples of the North, *n.*, 226
 Victoria Nyanza: ¶Fishing on Lake Victoria, with Notes on Hagedash Ibis. Stereo, 71*
 Vidal, E., 392*
 Vidal de la Blache, P., 395*
 Viegen, J., 633*
 Vienna: ¶Seismische Registrirungen in

- Wien . . . 1909. V. Conrad, 394*;
 Viennne-Grenoble-Dijon. Quelques
 etudes de villes. L. Gallois, 873*
 ¶ Maps of Vienna: Gesamtplan von
 Wien, n., 719; Neuester Bezirks-Tas-
 chen-Plan und Führer von Wien in
 Buchform, 227*; Plan der Grossge-
 meinde von Wien, n., 719
 Vieques, Porto Rico, Results of Obser-
 vations made at the Coast and Geod.
 Surv. Magnetic Observ. 1907-8. D. L.
 Hazard, 471*, 1909-10, 790*
 Vigoni, P., 632*
 Villarello, J. D., 70*
 Villatte, N., 711*
 Villiers, J. A. J. de, 790*
 Villot, Lieut.-Gen., 948*
 Vinassa de Régný, P., 925*
 Vincent, E., 690
 Virginia: ¶ Agriculture. Census 1910,
 311*; Dismal Swamp of. A. Hollick,
 927*; Ye Kingdome of Accawmacke
 or the Eastern Shore of Virginia in
 the Seventeenth Century. J. C. Wise,
 rev., 55; Manufactures, Census 1910,
 929*; Population, Census 1910, 229*;
 Seventy-Five Years in Old. J. H.
 Claiborne, 226*; University of —
 Memories of her Student-Life etc. D.
 M. R. Culbreth, 142* ¶ Maps of Vir-
 ginia: Gilbert Quad., 557*; Pocahon-
 tas Special Quad., n., 557; Point Look-
 out Quad., 934*; Charts: From Hog
 Is. to Cape Henry, 236*; Chesapeake
 Entrance, 236*; Chickahominy R.,
 236*; James R., 3 Charts, 635*, 636*
 Virgin Valley and Thousand Creek,
 Mammal Beds of. J. C. Merriam,
 147*
 Vischer, A., 312*
 Vistula: ¶ Über Landschaftsnatur der
 deutschen Weichselufer. F. Braun,
 635*
 Vivier de Streeel, E. du, 710*
 Voelkov, A., 209, 555*
 Voinot, L., 552*
 Volcanoes: ¶ Das Ende des Matavanu-
 Ausbruchs auf Savaii. K. Sapper,
 394*; Matavanu Volcano Quiescent,
 208; Matavanu am 9. April, 1911.
 W. Grevel, 314*; Matavanu in Savaii.
 T. Anderson, 314*; Nachrichten über
 den Ausbruch des Vulkans Usu im
 Jahre 1910. H. Simotomai, 394*; Les
 Nappes de lave, les volcans et les
 sources thermales dans les environs
 de la baie Wood au Spitzberg. A.
 Hoel and O. Holstedahl, 875*; Some
 New Zealand Volcanoes. J. M. Bell,
 794*; Recent Volcanic Eruption in the
 Philippines. C. A. Gilchrist, 313*;
 Report of the Eruption of Katmai
 Volcano. I. M. Dailey, 641; Studying
 a Volcano in Eruption (Smeroe, Java),
 453; Tätigkeit der Vulkane Ghai und
 Raluan. K. Sapper, 150*; Taal Vol-
 cano and its Recent Destructive Erup-
 tion. D. C. Worcester, 554*; Erup-
 tion of Taal . . . Jan. 30, 1911. M.
 Máso Saderra, 232*; Visit to the Great
 Taal Volcano. S. MacClintock, 313*;
 Tarumai-Ausbruch in Japan, 1909.
 H. Simotomai, 793*; Volcanic Craters
 and Explosions. T. Anderson, 396*;
 Über den Usu und Hokkaido und über
 einige andere Vulkane mit Quellkup-
 penbildung. I. Friedlaender, 793*;
 Vulkanismus und Tektonik im Becken
 von Neapel. W. Kranz, 634* ¶ Maps:
 Kartenskizze des Usu, n., 937; Skizze
 der Blanche-Bucht mid den Vulkanen
 Ghaie und Raluan, 79*; Taupo Vol-
 canic Zone, 938*; Topography of the
 Tarawera Volcanic Rift soon after
 Eruption of 1886, 938*; Tuhua or
 Mayor Island, Bay of Plenty, 938*;
 Übersichtskarte von West-Hokkaido,
 n., 937
 Volga. A. Lepeszyński & B. Dobry-
 nin, 626*
 Volk, E., 311*
 Volz, W., 304
 Volz, Dr. Walter, Reise durch das
 Hinterland von Liberia im Winter
 1906-1907. Nach seine Tagebüchern
 bearbeitet von Dr. R. Zeller, rev., 378
 Vorarlberg, Das Bauernhaus in Tirol
 und. J. Deininger, 942*
 Voth, H. R., 628*
 Voyages: ¶ A Forgotten Navigator:
 Captain (Afterward Sir) John Hayes
 and His Voyage of 1793. I. Lee,
 234*; Korte Historiaal ende Jour-
 naels acenteyckeninge van verschey-
 den Voyagiens in de vier deelen des
 wereldts-Ronde, als Europa, Africa,
 Asia, ende Amerika. gedean door d.
 David Pietersz. de Vries. Edited by
 H. T. Colebrander, rev., 705; Jour-
 naal der Reis van den Gezant der O.
 I. Compagnie Joan Cunaecous naar
 Perzië in 1651-1652. Gehouden door
 Cornelis Speelman, n., 467; Notes du
 voyage en Espagne (1640-41) du
 médecin Otto Sperling. E. Gigas,
 396*; The Periplus of the Erithraean
 Sea. Travel and Trade in the Indian
 Ocean, by a Merchant of the First
 Century. Translated from the Greek
 and Annotated by W. H. Schoff, rev.,

- 224; Portola Expedition of 1769-1770. Diary of M. Costanso. 234*; Diary of Vicente Vila, 315*; Die Reise des Arabers Ibn Batûta durch Indien und China. (14. Jahrhundert). Bearbeitet von H. v. Mëik, n., 866; De Reis van Jacob Roggeveen ter Ontdekking van het Zuidland (1721-1722) verzameling van stukken deze Reis en de daaraan voorafgaande ontdekkingsplannen van Arend Roggeveen (1675-1676) betreffende uitgegeven door F. E. Bron Mulert, 308*
- Vries, T. de, 928*
- Vuccini, T., 192*
- W
- Wace, A. J. B. and M. S. Thompson, 626*
- Wachmann, C., 320
- Wadai: ¶ *Donnée géologiques sur le Ouadai et les pays limitrophes d'après les renseignements du Capitaine Arnaud. P. Lemoine, 72**; Voyage au Ouaday. Ibn-Omar El-Tounsou, 947*
- ¶ Map of Wadai: Carte du Ouadai, n., 798
- Wade, A., 631*
- Wadmond, S. C., 147*
- Wagenaar, J., 948*
- Wagner, H., 152*, 555*
- Wagner, J., 948*
- Wahnschaffe, F., 235*
- Wa-Kikuyu, John Boyes, King of the —. Written by Himself, n., 708
- Walckenaer, Baron, 948*
- Walcott, C. D., 392*
- Waldin, W., 547
- Wales: ¶ North Wales. J. E. Morris, 867*
- ¶ Map showing Annual Rainfall, 319*
- Walker, William, The Provisional Government of Nebraska and the Journals of. W. E. Connelly, 941*
- Wallace, D., 56, 131
- Wallace, W. S. See Wrong, G. M.
- Wallachia: ¶ La Valachie. E. de Martonne, 944*
- Walle, P., 148*
- Wallis, B. C., 396*
- Walradt, H. F., 628*
- Walsh, Archdeacon, 150*
- Walters, H. B., 948*
- Walther, F. W., 948*
- Warburg: ¶ Der Warburger Sattel, seine Baustörungen und die vulkanischen Durchbrüche. A. Kraiss, 151*
- Warburg, O., 713*
- Warbuton, C., 868*
- Ward, A. W., Prothero, G. W. & Leathes, S., 948*
- Ward, F. K., 638, 872*
- Ward, R. DeC., 230*, 551*, Personal, 293
- Warren, W. F., 228*
- Wasatch Region, Spring Flora of. A. O. Garrett, n., 142
- Washington: ¶ Agriculture. Farms, Live Stock, etc., Census 1910, 869*; Coal Fields of King County. G. W. Evans, 927*; Geology and Ore Deposits of Index Mining Dist. C. E. Weaver, 628*; — of Meyers Creek Mining Dist. J. B. Umpleby, 470*; — of Oroville-Nighthawk Mining Dist. J. B. Umpleby, 470*; Irrigation. Farm and Acreage irrigated, etc., Census 1910, 929*; Lead and Zinc Deposits in the Metaline Mining District. H. Bancroft, 69*; Manufactures, Census for 1910, 869*; The Olympic National Forest, etc. F. Burns, 927*; Population, Census 1910, 70*; Retracement of Boundary Line between Idaho and — from Junction of Snake and Clearwater Rivers N. to Intern. Boundary. R. B. Marshall, 470*; Washington-Idaho Boundary, 119; The Western Gate, or, The maritime district of W. Washington and a new Amer. mercantile marine. P. H. W. Ross, 142*
- ¶ Maps of Washington: Beverly Quad., 877*; Moses Lake Quad., 934*; Four Cartograms showing increase and decrease of population by Counties, Total population, Rural Population, Density of by Counties, Census 1910, 155*; Four Charts, 236*
- Washington, George. Letters, 948*
- Waste, Checking the. A Study in Conservation. M. H. Gregory, *rev.*, 924
- Water: ¶ Protection des eaux potables. E. A. Martel, 234*; Der Wasservorrat unserer Erde. W. Halbfass, 475*
- Waterfalls: ¶ Constructive Waterfalls. J. W. Gregory, 235*; Einfluss der Wasserfälle auf die Ansiedelungen der Menschen. F. Kyaw, 228*
- ¶ Maps: Plan of Topolje Falls, n., 80; Sketch Map of Topolje Falls, n., 80; Sketch of Neighborhood of Kerka Falls, n., 80; Sketch Map of Neighborhood of Pliva Falls, 80*
- Watson, C. M., 931*
- Watson, L. W., 930*
- Watt, A., 234*
- Wauters, A. J., 631*, 871*
- Weather. See also Climate and Meteorology: ¶ Étude critiques sur la méthode de prévision du temps du

- Guilbert, P. H. Gallé, 635*; Great Weather Cycle. T. W. Keele, 152*; Weather Science. F. W. Henkel, *rev.*, 305; What will the Weather be? Amateur Forecaster's Vade Mecum. H. G. Busk, 228*; Our Weather. J. S. Fowler and W. Marriott, *rev.*, 862; Weather Signs and How to Read them at Sea. W. Allingham, *n.*, 926
- Weaver, C. E., 628*
- Webb, G. W., 63
- Webber, C. H. & W. S. Nevins, 948*
- Weber, C. A., 397*
- Weber, F., 533
- Weber, M. M. v., 948*
- Wedemeyer, A., 395*
- Weed, W. H., 628*, 693
- Weeden, E. St. Clair, 860
- Weedon, T., 867*
- Weeks, J. H., 377
- Wegemann, C. H., 470*, 558*, 628*; See Also Davis, J. A. & Munn, M. J.
- Wegemann, G., 639*, 874*
- Wegener, A., 715*, 718*
- Wegener, G., 232*, 872*
- Wegener, K., 474*, 527
- Wehner, H., 240*
- Weidman, S., 628*;—and P. O. Wood, 629*
- Weigand, B., 714*
- Weise, O., 709*
- Weissenberg, S., 791*
- Wellington, N. Z., Recent and Sub-Recent Movements of Uplift and of Subsidence near. C. A. Cotton, 794*
- Wells, J. See How, W. W.
- Werth, E., 633*
- Western Australia: See under Australia.
- West Indies. See also Cuba, Porto Rico, etc. ¶ Central America and West Indies. A. H. Keane, *n.*, 389; List of Works relating to the West Indies, 870*; Repression of Piracy in the. C. G. Calkins, 392*; West Indian Progress. A. E. Aspinall, 551* ¶ Map: Amérique. (Service Géog. de l'Armée), *n.*, 237
- Westphalia: ¶ Wirtschaftliche Abhängigkeit Rheinland-Westfalens vom Boden. M. Eckert, 314*
- West Virginia: ¶ Agriculture. Census for 1910, 869*; Population, Census 1910, 147*; Results of Spirit Leveling, 1909 to 1910. R. B. Marshall, 311* ¶ Maps of West Virginia: Bald Knob Quad., *n.*, 934; Gilbert Quad., 557*; Hancock Quad., Areal Geology, Structure Sections 398*; Drainage Map of Paw-paw and Hancock Quads. showing the "trellis" arrangement of the streams, 398*; Holden Quad., *n.*, 934; Madison Quad., 398*; Naugatuck Quad., 877*; Mullens Quad., 877*; Oxbow cut-off in Sleepy Creek at Johnsons Mill, 398*; Pawpaw Quad.: Areal Geology, Structure Sections, 398*; Pineville Quad., 877*; Pocahontas Special Quad., *n.*, 557; Pounding Mill Quad., 878*; Welch Quad., 878*; Portions of Matewan and Williamson Quads, *n.*, 934
- Weule, K., 702, 868*
- Whaling Fisheries: ¶ Whaling in Southern Seas, 526
- Wheat: ¶ Climatic Limits of Wheat Cultivation, with Special Reference to North America. J. F. Unstead, 627*; Wheat-Growing in Canada, the United States, and the Argentine, Including Comparisons with Other Areas. W. P. Rutter, *rev.*, 372
- ¶ Maps: Two Maps to illustrate "Climatic Limits of Wheat Cultivation with special reference to North America, *n.*, 637
- Wheeler, A. O. and E. Parker, 694
- Whitbeck, R. H., 70*, 149*
- White, J., 230*, 307
- Whitehouse, Frederic Cope, *Obituary*, 125
- White Mountains: ¶ Commercial Importance of the White Mountain Forests. P. W. Ayres, 788*; — Trails. Tales of the Trails to the Summit of Mount Washington and other summits of the White Hills. W. Packard, *n.*, 786
- Whitford, H. N., 712*
- Whitney, M., 470*
- Whitson, A. R. and O. E. Baker, 849
- Wicherley, W., 787*
- Wichmann, H., 152*, 553*, 629*, 631*; See also Habenicht, H.
- Wiener Wald: ¶ Archäologischer Wegweiser durch das Viertel ober dem Wiener Walde, usw. E. Sacken, 946*
- Wiese, J. D. T. and R. Ronaldson, 472*
- Wight, Isle of: See Isle of Wight.
- Wild Duck Foods, Three Important. W. L. McAtee, 229*
- Wildeman, E. de, 932*; See also Dryepont, Dr.
- Wilke, G., 228*
- Wilkes, C. ¶ Wilke's Work Endorsed by a British Authority, 523
- Willard, D. E., 154*
- Willcocks, Sir W., 701, 937*
- Williams, G. S., 629*

- Williams, J., 790°
 Williams, M., 147°
 Willis B., 315°, 394°
 Wills, L. J., 390°
 Wilson, A. W. G., 450
 Wilson, B., 231°
 Wilson, F. C., 629°
 Wilson, J. L., 159°
 Wilson, M. E., 230°
 Winchell, A. N., 70°
 Winchell, N. H., 532
 Winchester, D. E. See Davis, J. A.
 Winds: ¶Bestimmung der Windrichtung und Windgeschwindigkeit in der Höhe aus den Beobachtungen von Pilotballonen. P. Perlewitz, 635°; Chinook in southern Alberta, etc. R. F. Stupart, 230°; Das Klima von Innsbruck mit besonderer Rücksicht auf den Föhn. A. Defant, 713°; Versuch einer Darstellung der griechischen Windverhältnisse und ihrer Wirkungsweise. A. Stange, 713°; Wind-Blown Trees. O. Burchard, 692; Wind Movement under a Constant Gradient. J. I. Craig, 235°; Winds of the U. S. and their Economic Uses. P. C. Day, 856; Windverhältnisse in den oberen Luftschichten nach Ballonvisierungen zu Batavia, nach Dr. van Bemmelen. P. Perlewitz, 715°
 Winnen, M. A., 711°
 Winter, N. O., 126, 389°
 Wire-Grass. R. M. Harper, 396°
 Wisconsin: ¶Bibliography of Wisconsin's Participation in the War between the States. Compiled by I. S. Bradley, 142°; Contrast between Glaciated and Driftless Portions of. R. H. Whitbeck, 70°; Flora of Racine and Kenosha Counties. List of Fern and Seed Plants growing without cultivation. S. C. Wadmond, 147°; Geographic Society of, 608; Geography and Agriculture in, 204; Manufactures, Census 1910, 929°; Population, Census 1910, 147°; Progress of Forestry in. F. B. Moody, 311°; Reconnaissance Soil Survey of part of Northwestern. S. Weidman, 628°; Relation of Climate to agriculture in. A. R. Whitson and O. E. Baker, 849 ¶Maps of Wisconsin: Characteristic Driftless area topography of northern — showing normal mature drainage, 77°; Geol. Map of Penokee-Gogebic Dist. C. R. Van Hise and R. D. Irving, 77°; Outcrop map of Florence Iron District. W. N. Merriam and W. O. Hotchkiss, 77°; Rib Hill, monadnock rising above the peneplain, 76°; Sketch Map showing Baraboo, etc. . . . pre-Cambrian areas of south-central, 77°; Sketch map to show general relations of iron-bearing rocks, principally upon Huronian, in Crystal Falls, Iron River, etc., 76°; Terminal Moraine and Outwash plain Topography in glaciated area of western, 77°
 Wise, J. C., 55
 Witchcraft: ¶New England's Place in the History of. G. L. Burr, 627°
 Wittich, E., 78°
 Witting, R., 796°, 876°
 Witwatersrand, Geology of a Portion of Central. E. T. Mellor, 393°
 Wolf, H., 72°
 Wolf-Czapek, K. W., 468°
 Wolkenhauer, W., 395°
 Wood, B. D., 629°, 929°
 Wood, P. O. See Weidman, S.
 Wood, W., 550°
 Woodruff, E. G., 470°, 629°
 Woodward, H. B., 66
 Worcester, D. C., 554°, 873°
 Worcester County, Mass. History of, 948°
 Worcestershire, England (Cambridge Geographies). L. G. Wills, n., 390
 Workman, F. B., 897; — and W. H., 17
 World: ¶Bevölkerungsstatistik der Länder ohne Volkszählung. A. N. Kiaer, 716°; Century Atlas of the World. B. E. Smith, *rev.*, 863; Commerce — in 1910, 396°; Forest Resources of the. R. Zon, 876°; World's Commercial Progress. Descriptive Account of Economic Plants of the World and of their Commercial Uses. W. G. Freeman and S. E. Chandler, *rev.*, 545; Korte Historiaal ende Journaels aenteyckeninge van verscheyden Voyagiens in de vier deelen des wereldts-Ronde, etc., gedaen door d. Pietersz de Vries, *rev.*, 705; Von Pol zu Pol. Sven Hedin, n., 468; — Neue Folge. Vom Nordpol zum Äquator. S. Hedin, 548°; Railway Conquest of the World. F. A. Talbot, *rev.*, 862; Religions of the World and the World-Religion. W. F. Warren, 228°; World Geography. R. S. Tarr and F. M. McMurry, 229° ¶Maps of the World: Atlas Universel de Géographie. L. V. de St. Martin et Fr. Schrader, n., 799; Citizen's Atlas of the World. Edited by J. G. Bartholomew, n., 880; Coaling Stations of the World, 799°; Division of the world to be discovered

between the Portuguese and the Spaniards by the treaty of Tordesillas (1494) confirmed by the Pope, *n.*, 320; Flächengliederung der Erdteile. P. Seyferth, *n.*, 720; Funkentelegraphenkarten. Weltkarte, *n.*, 80; Geeignete Kartenprojektion zur Darstellung der Erdmagnetischen Elemente. H. Wehner, *n.*, 240; Geographische Gliederung der Erdoberfläche. E. Banse, *n.*, 240; Indexkarten zum Kartographischen Monatsbericht, *n.*, 240; Journey Around the World, 320*; Karte der Grenzen und der Genauigkeit unserer heutigen Kenntnis vom Relief der Erdoberfläche. L. Carrière, *n.*, 239; Kartenskizze der Kontinentalschollen, 640*; Northern Hemisphere. Isogonenkarte der Nordhemisphäre für die Epoche 1500, *n.*, 938; Philips' Chamber of Commerce Atlas. Survey of World's Trade with Commercial Compendium and Gazetteer Index, *n.*, 800; Planisphère. Bassin du Pacifique, Océan Atlantique et Océan Indien, *n.*, 320; Religionskarte der Erde. W. v. Diest & M. Groll, *n.*, 400; Rand, McNally & Co's new Imperial Atlas of the World, *n.*, 800; Salzgehalt an der Oberfläche der Meere im Verhältnis zur Süßwasserzufuhr der Stromgebiete und zur Höhe der Randegebirge, *n.*, 320; Tabularum geographicarum contractarum libri septem [1618]. P. Bertius, 940*; Trade Routes and Distances by existing lines and by the Panama Canal, 799*; Verbreitung des abyssischen Sedimente, 640*; Verbreitung und Intensität des Reisbaus auf der Erde. C. Wachmann, *n.*, 320; World (Oxford Outline Maps). B. V. Darbishire, *n.*, 720
Worsfold, W. B., 948*
Wrangell Mount, Glaciers East of, 365
Wrench, J. E. See Olmstead, A. T.
Wright, G. F., 129
Wright, H. S., 63
Wright, J., 948*
Wright, W. B., 123
Wrong, G. M. & Wallace, W. S., 624
Wurm, A., 314*
Württemberg: ¶ Jahreshefte des Vereins für vaterländische Naturkunde in, 73*; Über Württembergs amtliches Kartenwesen. W. Stavenhagen, 474*, 555*
Wyoming: ¶ Agriculture. Census 1910, 311*; Coal near the Black Hills. R. W. Stone, 628*; Irrigation. Farms and Acreage irrigated, etc., Census 1910, 929*; Manufactures, Census, 1910,

70*; Petroleum and Natural Gas in. C. H. Wegemann, 628*; Population, Census 1910, 229*; Potash-Bearing Rocks of Leucite Hills. A. R. Schultz and W. Cross, 869*; Reconnaissance of Phosphate Deposits in Western. E. Blackwelder, 627*; Report on Condition of Elk in Jackson Hole in 1911. E. A. Preble, 869*; Some Small Natural Bridges in Eastern. V. H. Barnett, 788* ¶ Maps of Wyoming: Canyon Quad., *n.*, 398; Gallatin Quad., *n.*, 398; Lake Quad., *n.*, 398; Laramie Quad.: Areal Geology, Structure Sections, Artesian Water, 154*; Structure of Laramie Quad., shown by contours, etc., 155*; Montpelier Quad., 75*; Sherman Quad.: Areal Geology, Structure Sections, 154*; Shoshone Quad., 75*; Ten Maps accompanying Potash-Bearing Rocks of Leucite Hills, 636*; Map of Powder R. Oil Field. C. H. Wegemann, 558*; Topographic Map of Yellowstone Park, *n.*, 557

X

Xingú: ¶ Routenaufnahme von Dr. E. Snethlage vom Xingú zum Tapajoz. M. Mayr, 870* ¶ Map: Iriri-Curujamanchim (Xingú- und Tapajozgebiet). Nach der Routenaufnahme 1909 von E. Snethlage. M. Mayr, *n.*, 717
Xochicalco. F. B. Purdie, 550*

Y

Yacoub Pasha, A., 134
Yakutat Bay Region: ¶ Phenomena associated with Glacier Drainage and Wastage, with especial reference to observations in the. O. D. v. Engeln, 469*
Ya-long R.: ¶ Exploration hydrographique du—et du Yang-tseu Supérieur. L. Audemard, 232* ¶ Map: Carte provisoire . . . et du Cours Inférieur du Ya-Long. L. Audemard, 79*
Yalu R.: ¶ Der Amunyoku Kan oder Yalu-Fluss und seine Häfen, 313*
Ya-mal Peninsula, Map: ¶ Samojedenhalbinsel. B. M. Shitkov, *n.*, 238
Yamamoto, H., 551*
Yangtse River: ¶ Exploration hydrographique du Ya-long et du Yang-tse supérieur. L. Audemard, 232*; La grande artère de la Chine. Le Yang-tseu. J. Dautremere, *rec.*, 699 ¶ Map: Carte provisoire du Yang Tseu Kiang supérieur et du cours inférieur du Ya Long. L. Audemard, 79*

- Yarra River: ¶ Contributions to the Physiography of the—and Dandenong Creek Basins. J. T. Jutson, 313*
- Yass-Canberra District, On the Climate of the. H. A. Hunt, 473*
- Yate, A. C., 873*
- Year Books: ¶ *Annuario Statistico Italiano*, 1911, 634*; *Delagoa Directory*, 1911, n., 58; *Jahrb. für Bremischen Statistik*, 1910, 233*; 1911, 633*; *Jahrb. über die Deutschen Kolonien*, 1911, 391*; *Jahrb. der Königl. Preuss. Geol. Landesanstalt zu Berlin*, 1909, 553*; *Jahrb. des Norwegischen Meteorol. Inst.*, 1905-10, 634*; *Jahrb. der Schweizer Alpenclub*, 1910-11, 714*; *Negro Year Book and Annual Encyclopedia of the Negro*, 1912, 787*; *New International Year Book*, 1911, n., 548; *New Zealand Official Year Book* 1911. M. Fraser, 633*; — of Commonwealth of Australia 1911. G. H. Knibbs, 308*; — of New South Wales for 1909-10. J. B. Trivett, n., 709; *Statist. Jahrb. für das Grossherzogtum Baden*, 1910-11, 314*; *Statist. Jahrb. für das Deutsche Reich* 1911, 73*; *Svenska Turist-Föreningens Årskrift*, 1912, 795*; *Victorian Year Book*, 1909-10. A. M. Laughton, 143*; *Vierunddreissigster Jahresb. über die Tätigkeit der Deutschen Seewarte für das Jahr 1911*, 555*; *Year Book of British Columbia and Manual of Provincial Information*, 1911. R. E. Gosnell, n., 624; *Yearbook of the U. S. Dept. of Agriculture*, 1911, 929*
- Yellowstone National Park: ¶ Improvement of the, 789* ¶ Maps: Canyon, Gallatin, and Lake Quads., n., 398; *Topographic Map of the Yellowstone Park*, n., 557
- Yellowstone R. Drainage Basin. W. A. Lamb, W. B. Freeman and F. F. Henshaw, 146*
- Yenisei Region, Geological Map of the Auriferous Region of the. A. K. Meister, 873*
- Yenisei River: ¶ Ocean Routes to — and Obi Rivers, 49
- Yentna District, Gold Placers of the. S. R. Capps, 788*
- Yokoyama, M., 394*
- Yonkers, Philipse Manor Hall at. E. H. Hall, n., 624
- Yosemite, The. J. Muir, *rev.*, 778
- Young, Robert Evans, *Obituary*, 124
- Younghusband, Sir F., 948*
- Yucatan, Map, n., 237
- Yucatan, Peninsula of. E. Huntington, 801
- Yukon Territory. W. H. Dall, G. M. Dawson & W. Ogilvie, 942*
- Yunnan: ¶ Exploration dans le Yunnan et dans le Sseu-tch'ouan. A. F. Legendre, 553*; Les grands courants commerciaux du Far-West chinois et notre chemin de fer du. Dr. Legendre, 472*; Le long du chemin de fer du Yunnan. A. Aymard, 553*; Penetration of Yun-Nan. A. P. Stout, 313* ¶ Maps of Yunnan: *Itinéraire de Yae-si-hien à Fou-lin*. Dr. Legendre, 158*; *Itinéraire de Yun-nan-fou à Sin-pou-tse*. Dr. Legendre, 158*; *Übersicht der Reise von Dr. Brunhuber und Schmitz von Bhamo durch Jünnan nach Omati*, n., 238

Z

- Zaepernick, H., 152*
- Zahn, G. W. v., 714*
- Zambezi: ¶ Progrès agricole du delta du Zambèse. E. Amavet, 72*
- Zanetti, P. See Forch, C.
- Zani, da Brescia, P. T., 925
- Zappfe, C. See Leith, C. K.
- Zeleny, J., 475*
- Zeller, R., 378
- Zemmrigh, J., 74*
- Zietz, R., 638
- Zimbabwe: ¶ Zur Simbábye-Frage. R. Pöch, 149*
- Zimmermann, E., 152*, 472*
- Zimmer, A. E., 787*
- Zimmern, H. See Lapworth, C.
- Zinc: ¶ Output of certain Minerals and Metals in the World, 234*
- Zinn, G. A., 629*
- Zoeppritz, K., L. Geiger & B. Gutenberg, 715*
- Zon, R., 876*
- Zoology: ¶ Animals and Man. Elementary Textbook of Zoology and Human Physiology. V. L. Kellogg, n., 145
- Zuider Zee, Map of Northern Netherlands showing plan adopted for the Reclamation of, 80*
- Zulus, Political and Social Divisions among the. J. B. McCord, 472*
- Zunković, M., 305
- Zurich, Maps: ¶ Uebersichtsplan der Stadt Zürich, Vermessungsamt der, n., 400
- Zurich Lake, Map: ¶ Spezialkarte des Zürichsees mit Umgebung, n., 640
- Zwemer, S. M., 310*, 390*
- Zwergern, von, 231*

ILLUSTRATIONS

AMERICA

British Columbia, Economic Prospects of New: **Q**Bulkley River, Salmon fishing on the, 180; Hudson Bay Mountain and its noble glacier from five miles distant, 177; Mount Geikie, View of — from the hillside showing the Athabaska and the peaks along-side forming Simpson Pass, 172; Skeena River, On the, 181; Stony Creek, Nechaco Valley, Oats and Barley near, 170; Tête Jaune Cache, 174

Coast and Geodetic Survey, Present Activities of the: **Q**Wire Drag for locating Sunken Rocks, etc., 259

Katmai Volcano, Report of the Eruption of: **Q**Volcanic ash, After two weeks settling by hard rains the — measured 10½ inches, 643; Volcanic Ash, Trees in front of the Mission covered with, 644

Selkirks, Notes on the Exploration and the Geography of the Northern: **Q**Gold River, View west up the main branch of, 248; Gold Stream Mt., View south from — showing Mt. Sorcerer on the left and Mt. Holway on the right, 246; Mt. Holway seen from the northeast across Downie Creek, 252; Mt. Holway, View southeast from the summit of—along the Illecillewaet Range, 253; Mt. Sorcerer seen from the southwest across the valley of Downie Creek, 255; Selkirks, Nameless Peaks of the Northern, facing p. 241

Urubamba, The Cañon of the: **Q**Machiganga Indians taking a twenty-five foot Canoe through one of the smaller Rapids, 890; Ollantaytambo, Portion of the celebrated ruins of, 886; Pongo de Mainique, Upper Entrance to the, 895; San Miguel, Cliff Vegetation near the bridge of — lower end of the granite cañon of Torontoy, 883; Sirialo rapids, Urubamba R., 887; Torontoy, Urubamba Valley, Granite gorge of. The lower half of a two thousand foot cliff, 882*; Urubamba, General or landscape view in the—at the foot of Sirialo Rapids, 894; Urubamba, Temporary shelter hut on a sand-bar near the great bend of the, 891

Yucatan, Peninsula of: **Q**"Cenote," The mouth of, 803; Henequen or sisal plant, 820; Indian, An—seated beside

the sleeping platform at his cornfield, 811; Indian Hut on the edge of the Jungle, 806; Indian village, A well in an, 814; Kabah, Detail of the walls of a ruin at, 819; Sayi, Ruins of the temple of, 818; Tropical Forest, 807; Yucatan Village, A House in a, 810; "Volon" or carriage suspended on straps at a sugar estate in Yucatan, 815

AFRICA

British East Africa, The Plateau of—and its Inhabitants: **Q**Makindu. Native House in the Making, 327; Mom-basa. In the Native Village, 324; Nairobi, Chicken Peddlers and a Native Policeman at, 330; Railroad Laborers on Work Train, 329; Rift Valley. Fault Escarpments, 333; Swahili is at a Railroad Station, 326, Voi, Gneiss Monadnock near, 331

Libyan Desert, A Journey in the: **Q**Bawitte, Olive-oil mill at, 739; Walled gardens at Bawitte showing human bones from rifled graves, 741; Bir Dikker, Camels drinking at, 736; Dakhla rim, Ascending the, 729; Fara-fra, Well boring at, 738; Müt, Panorama from housetops, 728; Müt, Village of, 726; Nile Valley, west of Minia, Dividing line between the desert and fertile ground, 743; Qsar Baharia, Sand encroachment at, 742; Qsar Dakhi, Mosque minaret at, 724; Rashida from a housetop, 732

ASIA

Manchuria's Great Southern Port: **Q**Dairen, Export Beans on the Wharves of, 49

Philippine Islands, Forests of the: **Q**Cogon Grassland from which the Forest has been removed by "caingin making," 83; Narra Tree, Cutting out a single piece table top from a buttress of the, 87; Mindoro, A Caingin area in, 82; Mindoro, Interior of a mangrove swamp, 88; Mindoro, Typical lauan forest in, 85

GENERAL

Gravity, Force of — and Methods of Measuring It: **Q**Gravity Apparatus of the Coast and Geodetic Survey used at the present time, 186; Inter-

ferometer apparatus arranged for observing the movement of the case due to the swinging pendulum, 188; Pen-

dulums, Two old forms of meter — compared with the quarter-meter pendulum, 185

MAPS, DIAGRAMS AND PROFILES

AMERICA

Alaska, Map of. Compiled chiefly from Maps of U. S. Geol. Survey, Coast Line from Coast and Geod. Survey Charts, facing p. 560

Arequipa, The "Solar Constant" and Variations of Atmospheric Temperature at — and Some other Stations, Diagrams, 601, 603, 604, 605, 606

British Columbia, Economic Prospects of New: ¶ Sketch Map showing the route of the "Mountain Section" of the Grand Trunk Pacific Railway, 169

California, Diagrams showing Rate of Growth of the "Big Trees" of — at Different Periods, 446

Duluth, A Geographic Study of: ¶ Maps: Concentration of railroads about Duluth, 415; Duluth and Glacial Soils in the U. S., 405; Duluth Plate, 403; Duluth and Vicinity, 404; Harbor of Duluth, 494; Hungary superposed on Minnesota and oriented so as to bring the plains area coincident with the plains of Minnesota, 504; Outline Map to show location of Duluth with reference to Great Lakes and Vicinity, 402; Principal Coal and Iron Ore Fields of the U. S., 411; Principal wheat fields in Central and Eastern U. S., 410; Railway network of the U. S., 413; Territory which is geographically tributary to Duluth, 416; ¶ Diagrams and profiles: Average annual Rainfall and temperature for Duluth, 407; Diagram showing low temperature in the morning, rapid rise during the day and subsequent fall at night, 409; Diagram showing prevailing wind, 409; Duluth and Superior, Vessel freight received and shipped, 495; Increase of Population, 1870-1910, 501; Port Cities and Minnesota, Comparison of per cent. of increase in population for, 502; Profile showing successive beach-terraces in western part of, 406; Tonage through Sault Ste. Marie Canals, 498; Variations in absolute maximum and minimum temperatures for Duluth for 1901-10, 408; Vermilion and Mesabi ranges, production of iron ore, 412

Illinois Petroleum Fields: ¶ Map showing Illinois Oil and Gas Fields, 419

Katmai Volcano, Report of the Eruption of: ¶ Katmai and neighboring parts of Alaska, Map, 642

Mississippi R. Floods of, 1912: ¶ Map of Lower —, showing locations of Levee Districts and important Points, 655; Departures from Normal Precipitations, for January, 648, Feb., 649, March, 650

River, Life along a Graded: ¶ Missouri R., Map of Part of, 675; Profile of the — from Three Forks, — Mont. to its Mouth, 676; Missouri River near Brunswick, Map, 680; Density of Population in Missouri, 1850, 678; Location of Leading Schools in, 678; Map showing Area described in this paper, 677; Map showing the neighborhood of Franklin, 679; Population of Missouri in 1830, 677

Selkirks, Notes on the Exploration and the Geography of: ¶ Sketch Map of Northern Selkirks, B. C., showing the Principal Rivers and Passes, Positions of Peaks above 10,000 feet and a Portion of Water-Parting of the Range, facing p. 256

United States, Corn in the: Maps, 750, 751, 752, 753, 754, 755, 756, 757, Diagrams, 746, 760

United States, Development and State of Progress of the — Portion of the International Map of the World: ¶ Map showing the Arrangement and State of Progress of the Sheets of the International Map of the World for the U. S., facing p. 842

Urubamba, The Cañon of the: ¶ Rough Sketch Contour Map of the Urubamba Valley, facing p. 896

Yucatan, The Peninsula of: Map of Yucatan, 802

AFRICA

British East Africa, The Plateau of — and Its Inhabitants: ¶ British East Africa, Map, 322

British East Africa Protectorate: ¶ Map, 4

Libyan Desert, A Journey in the: ¶ Copy of Map of 1561 in the British

Museum showing the Oases of the Libyan Desert, 724; Outline Map of Egypt showing position of the "inner oases" of the Libyan Desert, 722

ASIA

Philippines, Forests of the: ¶ Forest Map of the Philippine Islands, facing p. 81

Siachen Glacier, Survey of the: ¶ Map: Siachen Glacier and its Surroundings, 899

OCEANIA

Samoa Islands, American, New Map of: ¶ Map of Manua Group of the

Samoa Islands, from surveys by K. Wegener, facing p. 507; Tutuila. From Surveys by K. Wegener, facing page 506

POLAR REGIONS

Antarctic Names: ¶ Chart of Antarctica drawn Feb., 1909, Corrections May, 1909, May, 1912, facing p. 580; Chart of Antarctica showing suggested Hemispherical Nomenclature, 568; Chart of North Eastern West Antarctica showing Changes in Nomenclature facing p. 570

Crocker Land Expedition: ¶ Map showing proposed Route of the Crocker Land Expedition, 192

ERRATA

- p. 68, line 9 from bottom, for "A Grèce (Guides-Johanne)" read "Grèce (Guides-Joanne)"
- p. 79, line 2 from bottom, for "6°8' - 5°4' N." read "5°52' - 6°46' S."
- p. 96, line 8 from bottom, for "Mont de a Gouille" read "Mont de la Gouille"
- p. 97, line 2 from top, for "Wildstrubal" read "Wildstrubel"
- p. 157, under "Morocco", line 3, for "40°58' W." read "4°58' W." and, line 6, for "40°57' W." read "4°57' W."
- p. 160, under "Australasian Mediterranean", line 4, for "pp. 662-624" read "pp. 622-624"
- p. 160, under "Indian and Pacific Oceans", line 4, for "pp. 504-591" read "pp. 585-591"
- p. 160, under "North Atlantic Ocean", line 1, for "and" read "an"
- p. 169, last line of title of map, for "1:217,600" read "1:792,000"
- p. 202, line 11 from bottom, for "Privatodozent" read "Privatdozent"
- p. 293, line 9 from bottom, for "additions" read "editions"
- p. 294, line 7 from top, for "Manu group" read "Manua group"
- p. 294, line 17 from top, for "he begin" read "he began"
- p. 335, line 20 from top, for "Einzelförme" read "Einzelformen"
- p. 365, lines 9 and 12 from top, for "Quaternary" read "Quaternary"
- p. 458, line 2 from bottom, for "microscopic" read "macroscopic"
- p. 553, second subdivision under Asia, for "Asiatic Russia" read "Asiatic Turkey"
- p. 797, under "United States-Mexico", line 4, for "1:50,700" read "1:500,000"
- p. 876, under "Physical Geography", second entry, for "Meckling, L." read "Mecking, L."
- facing p. 896, map of the Urubamba Valley between Rosalina and Pongo de Mainique: on inset in upper left hand corner the course of the Urubamba River should have been continued to the north, beyond the confluence with the Timpia.

